SONY

Operating Instructions

Getting Started

Operating the Remote Commander

Unit Settings

Setting by On-Remote Setup

Additional Information

Appendix

RM-AX4000

Integrated Remote Commander

To go to the section you want to read, click the title in the PDF Bookmarks, the title in the "Table of Contents" of the Operating Instructions, or the page in the sentences.

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WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

WARNING

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

For the customers in the USA

Owner's Record

The model number is located on the rear of the unit and the serial number is located in the battery compartment. Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. RM-AX4000
Serial No. _____

NOTICE FOR THE CUSTOMERS IN THE U.S.A.

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

If you have any questions about this product, you may call; Sony Electronics Support 1-866-922-7669 or http://www.sony.com/remotesupport

Declaration of Conformity

Trade Name: SONY
Model No.: RM-AX4000
Responsible Party:
Sony Electronics Inc.
Address: 16450 W. Bernardo Dr, San Diego, CA 92127 USA
Telephone No.:858-942-2230

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Notice for users

On the supplied software

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- In no event will SONY be liable for any financial damage, or loss of profits, including claims made by third parties, arising out of the use of the software supplied with this unit.
- In the event a problem occurs with this software as a result of defective manufacturing, SONY will replace it. However, SONY bears no other responsibility.
- The software provided with this unit cannot be used with equipment other than that which is so designated.
- Please note that, due to continued efforts to improve quality, the software specifications may be changed without notice.
- Operation of this unit with software other than that provided is not covered by the warranty.

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- Microsoft Windows XP Media Center Edition, Microsoft Windows XP Professional and Microsoft Windows XP Home Edition are mentioned as Windows XP in this manual.
- Microsoft Windows 2000 Professional is mentioned as Windows 2000 in this manual .

Features

The RM-AX4000 Remote Commander provides centralized control of all your AV components from a single remote control and saves the trouble of operating different AV components with different remote control devices. The following are its main features.

Control up to 16 components

With the Remote Commander, you can control up to 16 components, including your TV, VCR, DVD, CD, RCVR, etc.

Centralized control of Sony AV components with this one Remote Commander

The Remote Commander is preset at the factory to operate Sony brand components, so you can use it out of the box as a control center for your Sony AV components.

Remote control signals for non-Sony components are also preset

The Remote Commander also recognizes the preset codes for most major brands components, as well as Sony. Just select the corresponding codes to control all your AV components.

XPRESS functions for executing a series of commands to operate several AV components, just by pressing one key.

Groups of commands from different components can be set onto up to 8 XPRESS keys. For example, when you watch a DVD using a TV and amplifier/receiver, you just press one key to on/off each component, select the correct inputs. Available keys for the XPRESS function appear on the LCD display. Also, XPRESS function can memorize the status of power on/off, input selector for each component, and send a signal to synchronize the status which you want without reference to the component's status.

The AX Remote Editor software allows you to make advanced settings for the Remote Commander.

Air-Slide executes an XPRESS function by "sliding your finger" across the LCD display

You can also perform an XPRESS function by sliding your finger in a set pattern across the Remote Commander's LCD Display. This function is called an "Air-Slide", and 6 different patterns are available.

The AX Remote Editor software allows you to make advanced settings for the Remote Commander.

Clock display and Timer function

Up to 8 Timer macros can be programmed to automatically turn on/off components and other controls (such as recording, stopping, etc.).

Learning function lets you program other remote control signals you may need

The Remote Commander's learning function can learn the remote control infrared signals of non-preset components. The Remote Commander can learn remote control signals (infrared signals only) of other devices such as air conditioners, lights, etc. (some specific appliances or functions may not be available).

System Control function executes a series of commands (a macro) by pressing one button/key

The Remote Commander has special buttons/keys, which can be programmed to perform a series of commands (a macro) just by pressing one button/key. You can program up to 8 System Control macros.

KeyMacro function allows you to select a channel with a single key

The Remote Commander allows you to program a macro for a key to operate an AV component. For example, you can create a macro that enters the numbers 1, 2, and 3, to select channel 123 just by pressing one key.
The AX Remote Editor software allows you to make advanced settings for the Remote Commander.

Easy-to-operate Touch-key LCD with blue back light

The Remote Commander has a Touch-key LCD that changes keys and labels according to the selected component. The Remote Commander is easy to operate as only the keys necessary to operate the selected component are shown. The display backlight allows operation even in the dark.

"AX Remote Editor" for easy Remote Commander setup

The supplied software "AX Remote Editor" allows you to set up the Remote Commander on your PC and download the settings to the Remote Commander. Various advanced settings can also be made easily on your PC.

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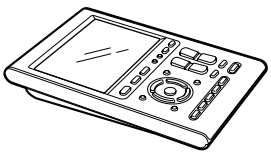
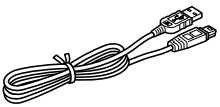
Unpacking

Check the contents of the package before using the Remote Commander.

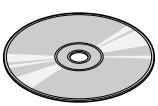
• Remote Commander RM-AX4000 (1)



• USB mini cable (1)

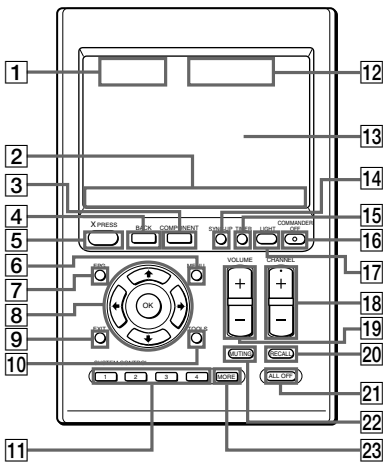


• CD-ROM for the AX Remote Editor software, PDF file Operating Instructions (1)



• Quick Start Guide (1)
• Preset code lists (1)
• Warranty Card (1)

Location and function of controls



The CHANNEL + button has a tactile dot.

1 Clock display (pages 11, 42)
Displays the clock, the transmission mark, the battery mark and the timer mark.

2 Label keys
Different keys appear depending on the selected display. The Label keys are used mainly to choose the XPRESS function/component/System Control/Timer/setting items, etc. You can change the names of the XPRESS function, components, System Control key and Timer as the Label keys.

3 COMPONENT button (page 27)
The component names appear as the Label keys. When you press a component name, the operating display for that component appears.

4 BACK button (page 24)
Used to return to the previous display.

5 XPRESS button (pages 22-24)
The XPRESS names appear as the Label keys. When you press an XPRESS name, the operating display for that XPRESS function appears, and its macro is performed.

6 MENU button (pages 76-87)
Calls up the menu screen for components that have menu function.

7 EPG button (pages 76, 78, 81, 84, 86)

8 OK and Cursor Control buttons (pages 40, 46, 62, 67, 76, 78-81, 83-88)

9 EXIT button (pages 39, 76, 78-81, 83-87)

10 TOOLS button (pages 76, 78, 81, 84, 86)

11 SYSTEM CONTROL buttons (pages 31, 51, 54)
You can automatically carry out the entire program by pressing one button.

12 Display title
Shows the title of the LCD Display. If a page number such as "/1" appears, multiple pages are available. If you press the number, next page displays.

13 Touch-keys
The keys are used for setting the Remote Commander and operating each component appear on the LCD display.

Note
Do not press the touch-keys using sharp objects such as pins or ball-point pens.

14 SYNC-UP button (pages 25, 49, 55)
Used to synchronize with the status of a component .

15 TIMER button (pages 29, 30)
Used to set the timer program on/off.

16 COMMANDER OFF button (page 33)
Turns the power of the Remote Commander off.

17 LIGHT button (pages 32, 49)
Used to brighten the backlight in the dark. Press the button once to turn on/off the light.

18 CHANNEL +/– buttons (pages 76-78, 80-81, 83-87)
Selects the channel.

19 VOLUME +/– buttons* (pages 29, 50, 76-90)
Adjusts the volume.

20 RECALL button (pages 76-78, 81, 84-86, 91)

21 ALL OFF button (page 33)

22 MUTING button* (pages 29, 50, 76-90)
Silences the sound. Press the button to silence, and again to return to the previous volume level.

23 MORE button (pages 31, 51, 55)
The System Control keys (SYSTEM5-8) are displayed as the Label keys. When you press a System Control key, its macro is performed.

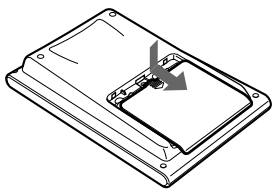
Note
No default System Control key macros are set at the factory.

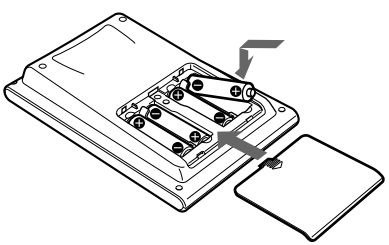
* ***Note on the VOLUME +/– and MUTING buttons***
The Remote Commander can control or silence the TV and amplifier's volume when you select a visual or audio component.

Note on the LCD display's power on/off
To turn on the LCD display, press any button except the COMMANDER OFF button.
To turn off the LCD display, press the COMMANDER OFF button. If you do not use the Remote Commander within 5 minutes, the LCD display automatically turns off.
This interval can also be changed (page 37).

Installing the batteries

Slide and open the battery compartment lid and insert four size AA (R6) alkaline batteries (not supplied). Be sure to line up the + and – of the batteries with the + and – of the battery compartment.





When to replace the batteries

When replacing the batteries, do it quickly. Otherwise, the memory settings for the clock will be erased. The clock does not work while replacing the batteries.

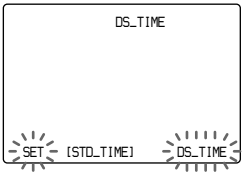
Alkaline batteries will last up to 5 months (a Sony TV turned On/Off up to approx. 300 times per day). If the Remote Commander does not operate properly, the batteries are getting weak and appears on the LCD display. When the LCD display dims or the backlight for the touch keys grows dim, the batteries are getting weak; replace them.

Notes on replacing the batteries

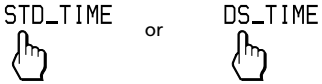
- Do not attempt to recharge dry batteries.
- Do not carry dry batteries together with coins or other metallic objects. This can generate heat if the positive and negative terminals of the batteries accidentally come into contact with metallic objects.
- When you are not going to use the unit for a long time, remove the batteries to avoid damage from battery leakage and corrosion.
- Do not use different types of batteries at the same time.
- When you replace the batteries, replace them both with new ones.

Setting the clock

When you install batteries the first time, the Remote Commander enters clock setup mode.
"DS_TIME" appears as the Display title.
"STD_TIME" lights and "SET" and "DS_TIME" flash on the Label keys.
STD_TIME: standard time
DS_TIME: daylight savings time



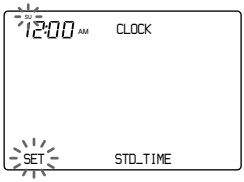
1 Press "STD_TIME" or "DS_TIME" on the Label keys.



The current setting is shown inside the [ ], while the other flashes.
If the summer time (daylight savings time) is used in your area, press the DS_TIME key. When the time change occurs (in spring and autumn), the Remote Commander will automatically adjust itself.
If the summer time is not used in your area, press the STD_TIME key.

2 Press "SET" on the Label keys.

A beep sounds, "SET" and "SU" flash, and "12:00 AM" lights on the Clock display.



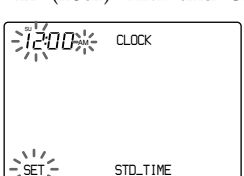
3 Set the day of the week by pressing the ⇧ or ⇩ button.

The selected day of the week flashes.

SU ↑↓ MO ↑↓ TU ↑↓ WE ↑↓ TH ↑↓ FR ↑↓ SA

SU : Sunday
MO : Monday
TU : Tuesday
WE : Wednesday
TH : Thursday
FR : Friday
SA : Saturday

Next, press the ⇨ button. The day of the week is set.
"12" (hour) "AM" and "SET" flash.



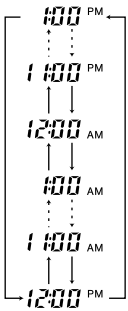
Note

If you press the ⇨ button, the day of the week is set and setting mode skips to step 5.

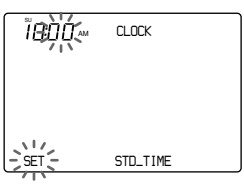
Continued

4 Set the hour and AM (or PM) by pressing the ⇧ or ⇩ button.

The selected hour and AM (or PM) flash.



Next, press the ⇨ button. The hour and AM (or PM) are set.
"00" (minute) and "SET" flash.

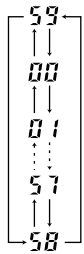


Note

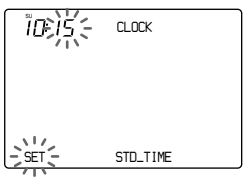
If you press the ⇦ button, the hour and AM (or PM) are set and the setting mode returns to step 3.

5 Set the minute by pressing the ⇧ or ⇩ button.

The selected minute flashes.



If you want to finish the clock setting, go to step 6.



Notes

- If you press the ⇨ button, the minute is set and the setting mode returns to step 3.
- If you press the ⇦ button, the minute is set and the setting mode returns to step 4.

6 Press "SET" on the Label keys.

The beep sounds, and the clock starts from the 0 second of the current minute.

Note

If you press the SET key in any step above, the clock starts from the 0 second of the current minute.

Remote Commander settings and operating procedures

About the factory setting

The Remote Commander (RM-AX4000) is preset at the factory to operate most Sony brand AV components (see the table below).
If you operate a non-Sony AV component, you need to set the component's preset code on the Remote Commander first.

Default components list

Displays on Remote Commander	Component
TV	TV
A-CBL	Analog Cable box
D-SAT	Digital Satellite
DVD	DVD player
VCR	Video Cassette Recorder
DVR	Digital Video Recorder
CD	CD player
RCVR	Receiver/Amplifier
DVDVR	DVR/DVD combo
DVD-R	DVD Recorder
D-CBL	Digital Cable box
DAV	DVD/Receiver combo
PJ	Projector
TAPE	Cassette deck*
MD	MD deck
LIGHT	Light

* Analog audio compact cassette deck

See "Table of preset functions" (page 76) for the functions of keys and buttons for each component.

How to set up the Remote Commander (On-PC Setup and On-Remote Setup)

There are two ways to make settings for the Remote Commander, "On-PC Setup" with the aid of PC software and "On-Remote Setup" directly on the Remote Commander.

- **On-PC Setup (Recommended)**
  "On-PC Setup" uses the supplied software for your PC, "AX Remote Editor," to set up the Remote Commander. By following the wizard, it allows you to easily make all the necessary settings for the Remote Commander (components' preset codes, etc.,). Furthermore, you can add and customize a range of settings which are not available with On-Remote Setup.
- **On-Remote Setup**
  "On-Remote Setup" is a way of setting up directly with the Remote Commander. However, some advanced settings are not available with On-Remote setup (see the table on page 14).

See "Setting procedure for On-PC Setup" (page 14), or "Setting procedure for On-Remote Setup" (page 15) for each setting method.

IMPORTANT
You cannot use both methods. Once you set up the Remote Commander by either On-PC Setup (recommended) or On-Remote Setup, you cannot make additional settings using the other method. You can only delete the entire setup and start over using the other setup method.

Programmable items of On-PC Setup and On-Remote Setup

Main setting items	Using the AX Remote Editor	Using the Remote Commander
Setting the preset codes	○	○
Learning the remote control signals	○	○
Editting the label	○	○
Setting the Timer	○	○
Programming the Timer	○	○
Setting System Control function *1	○	○
Setting XPRESS function *2	○	×
Setting Air-Slide function *3	○	×
Unit settings	○	○

*1 System Control function is used to perform a programmed series of commands (a macro) on several AV components by pressing just one button.

*2 An XPRESS function is also a macro function which executes a series of commands for controlling several AV components by pressing just one key. The difference is, the XPRESS display stays available for you to make additional settings.

*3 An Air-Slide is a function which executes an XPRESS function by "sliding your finger" in a set pattern across the display.

Setting procedure for On-PC Setup

If you set up the Remote Commander using On-PC Setup (recommended), follow the procedures below.

Step1: Installing the "AX Remote Editor" (page 16).

Step2: Installing the USB driver (page 17).

Step3: Starting up "AX Remote Editor" (page 20) and setting the Remote Commander.

See the Help file of AX Remote Editor for setting details.

Step4: Operating an AV component using the Remote Commander.

After finishing the setting with AX Remote Editor, operate the AV component using the Remote Commander.

- Operating the XPRESS function (page 22).
- Operating components individually (page 27).

Option1: You can also change the Unit Settings such as the backlight and beep (pages 34, 41).

Option2: You can also change the settings of the buttons or keys on the Remote Commander with AX Remote Editor.

See the Help of AX Remote Editor for setting with AX Remote Editor.

When using On-PC Setup
If you set up the Remote Commander using On-PC Setup, you do not need to read this PDF manual "Setting by On-Remote Setup".
(pages 45 – 69)

Setting procedure for On-Remote Setup

If you set the Remote Commander On-Remote Setup, follow the procedure below.

Step1: Setting the preset codes. (page 45).

Step2: Operating AV components using the Remote Commander.
After finishing the setting of the preset codes, you can use the Remote Commander to operate your AV components.
- Operating the XPRESS function (page 22).
- Operating components individually (page 27).

Option1: You can also change the Unit Settings such as backlight and beep (pages 34, 41).

Option2: You can also change the settings of the buttons or keys on the Remote Commander.
- Using non-preset remote control operations (Learning function) (page 47).
- Programming a series of commands with just one button (System Control function) (page 51).
- Setting the XPRESS macro activation (page 56).
- Controlling the volume of visual components connected to an audio component (page 57).
- Setting the Timer (page 59).
- Changing the names of labels (page 65).

When using On-Remote Setup
If you set up the Remote Commander using On-Remote Setup, you do not need to install the AX Remote Editor and its driver, or connect the Remote Commander to your PC. You also do not need to read the PDF pages 16 to 20.

Installing the "AX Remote Editor"

By installing the "AX Remote Editor" software on the supplied CD-ROM onto your PC, you can set up the Remote Commander with your PC. "AX Remote Editor" makes setting up complex operations like a series of commands (a macro) easy, and also allows various other convenient functions that can only be set up on the PC. For details, see the Help menu provided in "AX Remote Editor."

"AX Remote Editor" system requirements

Operating systems:
Windows XP Media Center Edition 2005/Windows XP Media Center Edition 2004/Windows XP Media Center Edition/Windows XP Professional/Windows XP Home Edition/Windows 2000 Professional

CPU:
Pentium II, 300 MHz or more

RAM:
64 MB or more (128 MB or more for Windows XP)

Required hard disc capacity:
20 MB or more

Display:
High (16 bits) Color or higher, 1,024 × 768 dots or better*

CD-ROM drive

USB port

* Does not operate with a display of under 1,024 × 768 dots.

Installing the "AX Remote Editor"

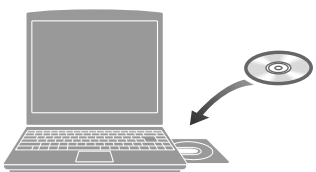
Follow the instructions below to install.

Notes

- Do not simply copy the "AX Remote Editor" folder in the supplied CD-ROM to a PC. You need to install it properly for it to work.
- On Windows 2000, or Windows XP, logon with an authorized "Administrator" ID when installing "AX Remote Editor."

1 Close all software running on Windows.

2 Insert the supplied CD-ROM into the CD-ROM drive of the PC.



After a moment, "RM-AX4000 Install CD Menu" appears.

3 Click [Install AX Remote Editor].
"AX Remote Editor 1.0 Setup" appears.

4 Click [Next].

Follow the on-screen instructions and proceed with the installation.
When the installation is complete, "AX Remote Editor 1.0 Setup" automatically quits.

Tip

If the installation display is hidden behind other windows

If "AX Remote Editor 1.0 Setup" disappears behind other displays while installing, press the [Tab] key several times while pressing down the [Alt] key to bring up "AX Remote Editor 1.0 Setup" again.

Installing the USB driver

You need to install the USB driver before connecting the supplied USB mini cable to your PC and the Remote Commander. Follow the instructions below to install.

Notes

- Without batteries in the Remote Commander, the USB connection cannot be detected by the PC even if the USB mini cable is connected. Make sure to install the batteries before installing the USB driver. If the USB driver installation is interrupted by mistake, install it again from the beginning.
- Do not simply copy the USB driver in the supplied CD-ROM to the PC. You need to install it properly for it to work.
- On Windows 2000 or Windows XP, logon with an authorized "Administrator" ID when installing the USB driver.
- On Windows 2000 or Windows XP, you need to install the driver for each port to which the Remote Commander will be connected.
- Depending on the PC, various messages other than those mentioned in this manual may appear during the USB driver installation. Just follow the on-screen instructions of these messages to install.

Continued

Installing the "AX Remote Editor" (continued)

For Windows XP users

1 Close all software running on Windows.

2 Insert the supplied CD-ROM into the CD-ROM drive of the PC.
After a moment, "RM-AX4000 Install CD Menu" appears.

3 Click [Exit] to close "RM-AX4000 Install CD Menu."

4 Connect the PC and the Remote Commander using the supplied USB mini cable (page 19).
The "Found New Hardware" message appears in the Notification Area in the lower right-hand of the display. After a moment, "Found New Hardware Wizard" appears.

Tip

If the following confirmation message appears, "Can Windows connect to Windows Update to search for software?", select [No, not this time] then click [Next].

5 Select "Install the software automatically [Recommended]", then click [Next].
Installing of the USB driver starts. The "Completing the Found New Hardware Wizard" display appears when the installation is complete.

6 Click [Finish].
Installing of the USB driver finishes.

For Windows 2000 users

1 Close all software running on Windows.

2 Insert the supplied CD-ROM into the CD-ROM drive of the PC.
After a moment, "RM-AX4000 Install CD Menu" appears.

3 Click [Exit] to close "RM-AX4000 Install CD Menu."

4 Connect the PC and the Remote Commander using the supplied USB mini cable (page 19).
The "Found New Hardware" message appears. After a moment, "Found New Hardware Wizard" appears.

5 Click [Next].
The "Install Hardware Device Drivers" display appears.

6 Select "Search for a suitable driver for my device [recommended]", then click [Next].
The "Locate Driver Files" display appears.

7 Mark only the check box of "CD-ROM drives", then click [Next].
The "Driver Files Search Results" display appears, and the found driver is displayed.

8 Click [Next].

Installing of the USB driver starts. The "Completing the Found New Hardware Wizard" display appears when the installation is complete.

9 Click [Finish].

Installing of the USB driver finishes.

Connecting the Remote Commander to your PC

You can now connect the Remote Commander (RM-AX4000) to your PC with the supplied USB mini cable. Connect whenever you want to verify correct operation of key and button commands for an XPRESS function, etc., or to exchange setup data between your PC and the Remote Commander.

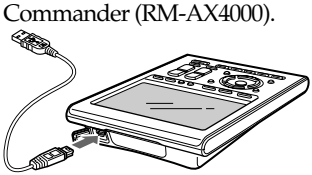
IMPORTANT

- Do not keep the Remote Commander connected to the PC when the PC is in standby/hibernation, otherwise, a malfunction could occur.
  Be sure to disconnect the Remote Commander from the PC before standby/hibernation begins.
- Furthermore, do not connect the Remote Commander to the PC while it is in standby/hibernation.
  Wait until the PC comes out of standby/hibernation before connecting.

Notes

- The Remote Commander uses the battery when connected to the PC. When you finish the setup, unplug from the USB connector.
- Before connecting the Remote Commander to your PC, be sure to install the fresh batteries in the Remote Commander.
- Do not disconnect the USB mini cable from your PC while your PC is communicating with the Remote Commander, as a malfunction may occur.
- Only connect one Remote Commander to your PC at a time. Otherwise, you will not be able to download the settings correctly.

1 Connect the USB mini cable to the USB connector of the Remote Commander (RM-AX4000).



2 Connect the USB mini cable to the USB connector of your PC.

Starting up “AX Remote Editor”

On your PC, click the Windows “Start” button and point to “All Programs” - “Sony Remote AX,” - “AX Remote Editor” and click.

“AX Remote Editor” starts up, and the last project appears.

The first time AX Remote Editor starts up, the “New Project” wizard appears. Following the on-screen instructions, create a project.

Tips

- If you are using an operating system other than Windows XP, click the “Start” button of Windows and point to “Programs” - “Sony AX” - “AX Remote Editor” and click to start up “AX Remote Editor”.
- If “ ” (the shortcut icon of AX Remote Editor) is displayed on the desktop of Windows, double-click the icon to open it. (Depending on the setting, Windows XP may automatically delete icons from the desktop if they have not been used for a certain period of time. If “ ” is not displayed on the desktop, use the “Start” button.)

Using “AX Remote Editor” – Help

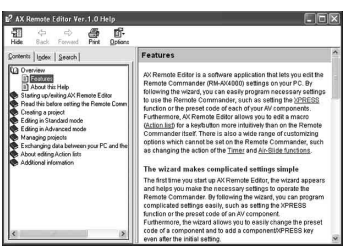
You can set up the Remote Commander by operating “AX Remote Editor,” referring to the detailed instructions provided in Help.

Starting Help

Start up “AX Remote Editor,” then click [Help] on the menu bar and select [AX Remote Editor help].

How to use Help

Click one of the tabs: [Contents], [Index] or [Search], and check the information you need.



To search by contents (Contents)

You can find information relating to a specific subject by using the table of contents shown on the “Contents” tab.

To search indexed information (Index)

You can find information from a list of predetermined keywords shown on the “Index” tab.

To search using key words (Search)

You can submit a Keyword search on the “Search” tab by typing in your keyword(s).

Operating your components

There are two ways to operate the components on the Remote Commander (RM-AX4000).

- **XPRESS operation:** You can operate multiple AV components related to a specific task, such as "watching a TV, " or "watching a DVD," etc. This is called an "XPRESS function."
- **Single component operation:** You can operate each AV component individually (page 27).

What is the XPRESS function?

An "XPRESS function" is an executable series of commands that operate several AV components, just by pressing one key. For example, you have to perform the following operations sequentially to watch a DVD using a TV, receiver/amplifier, and DVD player.

1. Turn on the TV.
2. Set the input mode of the TV to VIDEO1.
3. Turn on the receiver/amplifier.
4. Set the input selector of the receiver/amplifier to DVD.
5. Turn on the DVD player.
6. Start DVD playback.

By setting the above commands as an XPRESS function, you can watch a DVD by simply pressing one key.

Also, XPRESS function can memorize the status of power on/off, input selector for each component, and send a signal to synchronize the status which you want without reference to the component's status.

Some XPRESS functions are preset at the factory to operate Sony brand components (see the table at right). However, depending on the factory preset code, they may not necessarily be effective.

Default XPRESS list

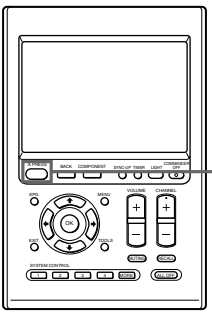
Displays on the Label keys	Programmed commands
TV	Turns on TV, and the display of XPRESS_TV appears.
A-CBL	Turns on TV and Analog cable box, and the display of XPRESS_A-CBL appears.
D-SAT	Turns on TV and Digital Satellite, and the display of XPRESS_D-SAT appears.
DVD	Turns on TV and DVD player, and the display of XPRESS_DVD appears.
VCR	Turns on TV and Video Cassette recorder, and the display of XPRESS_VCR appears.
DVR	Turns on TV and Digital Video Recorder, and the display of XPRESS_DVR appears.
CD	Turns on CD player and Receiver (Amplifier), and the display of XPRESS_CD appears.
RCVR	Turns on Receiver (Amplifier), and the display of XPRESS_RCVR appears.

How to set up an XPRESS function

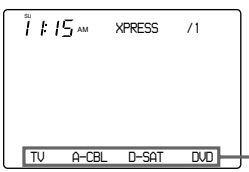
For On-PC Set up: See the Help menu provided in "AX Remote Editor."
For On-Remote Setup: You cannot set up an XPRESS function.

Continued

Operating the XPRESS function

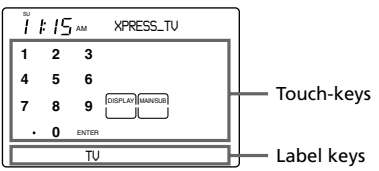


When you press an XPRESS button on the Remote Commander, the XPRESS names appear at the bottom of the display.



When you press an XPRESS name you want to operate, programmed commands for the key are performed and the display to operate the XPRESS function appears. This display is called, "XPRESS display." Keys on the XPRESS display are divided into two types—"Touch-keys" with preset labels and "Label keys" that can be customized. Touch-keys are used to execute an XPRESS function. Label keys are used to switch to the individual component displays (page 27) that make up the XPRESS function.

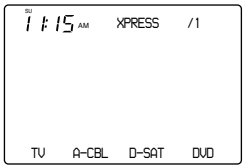
XPRESS display



Example: To play a DVD player by XPRESS function (when On-PC Setup was used to set up the Remote Commander)

1 Press the XPRESS button.

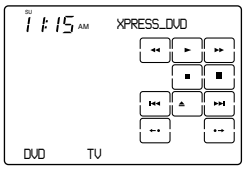
"XPRESS" appears as the Display title.



If a page number such as "/1" appears to the right side of Display title, multiple pages are available. Press the number to go to the next page.

2 Press the XPRESS name you want to operate (in this case, DVD).

The TV and DVD turn on and the input select of TV changes to those selected by "AX Remote Editor." The main keys you use to control the DVD are displayed as Touch-keys. The components that make up the XPRESS function are displayed as Label keys.



3 Press the key(s) or button(s) you want to operate.

When the signal is sent, ((•)) appears. You can also use other buttons, such as the VOLUME +/–, CHANNEL +/–, MUTING, cursor, and MENU buttons.

4 When you are finished using the Remote Commander, press the COMMANDER OFF button.

The Remote Commander turns off.

If you want to return to the previous display

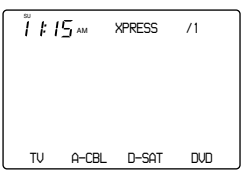
Press the BACK button, the previous LCD display returns.

Continued

Example: To play a DVD player by XPRESS function (when On-Remote Setup was used to set up the Remote Commander)

1 Press the XPRESS button.

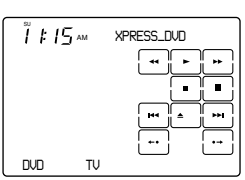
"XPRESS" appears as the Display title.



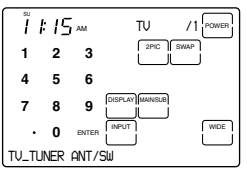
If a page number such as "/1" appears to the right side of Display title, multiple pages are available. Press the number to go to the next page.

2 Press the XPRESS name you want to operate (in this case, DVD).

The TV and DVD turn on. The main keys you use to control the DVD are displayed as Touch-keys.
The components that make up the XPRESS function are displayed as Label keys.

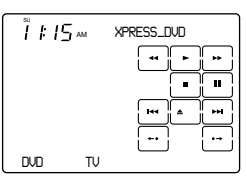


3 In this step, you need to set the correct input of each component that makes up this XPRESS function, e.g., the RCVR, TV, and DVD player. Press one of the component's Label keys to open its display, then press the INPUT key once or repeatedly until the correct input is selected.



4 Press the BACK button to return to the previous display, and repeat step 3 until all the necessary components' inputs are correctly set.

The previous LCD display returns.



Note

If you had used On-PC Setup, this step would be done automatically for you. That's why we recommend it.

5 Press the key(s) or button(s) you want to operate.

When the signal is sent, ((•)) appears. You can also use other buttons, such as the VOLUME +/–, CHANNEL +/–, MUTING, cursor, and MENU buttons.

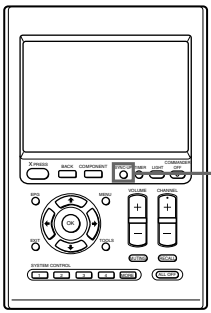
6 When you are finished using the Remote Commander, press the COMMANDER OFF button.

The Remote Commander turns off.

If you want to return to the previous display

Press the BACK button, the previous LCD display returns.

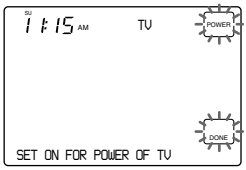
To synchronize with the status of a component – SYNC-UP



The Remote Commander memorizes the status of the components' input selectors, and power on/off. However, if you turn on/off the component manually or with a different remote control, the Remote Commander will not recognize the current component status. In this case, press the SYNC-UP button to synchronize with the status of the current component and the Remote Commander.

1 Press the SYNC-UP button.

The component you want to confirm the status of appears as the Display title.



Continued

2 Press the DONE key.

The component's (ON/OFF) power status is synchronized with the Remote Commander.

3 When you are finished using the Remote Commander, press the COMMANDER OFF button.

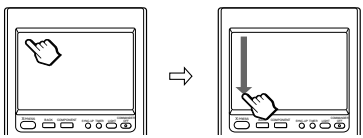
The Remote Commander turns off.

If you want to return to the previous display

Press the BACK button, the previous LCD display returns.

To perform an easy action "Air-Slide" for XPRESS function

The Remote Commander can perform an XPRESS function by "sliding your finger" across its display. This function is called an "Air-Slide function."



The Air-Slide has the following 6 patterns.

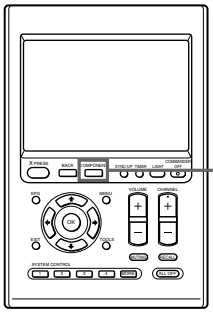
Default Air-Slide list

Pattern	Programmed commands
	XPRESS_TV is performed, and the display of XPRESS_TV appears.
	XPRESS_A-CBL is performed, and the display of XPRESS_ A-CBL appears.
	XPRESS_D-SAT is performed, and the display of XPRESS_D-SAT appears.
	XPRESS_DVD is performed, and the display of XPRESS_ DVD appears.
	No preset
	No preset

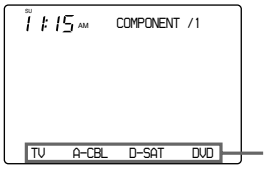
How to set the Air-Slide action

For On-PC Setup: See the Help menu provided in "AX Remote Editor." You can set Air-Slide commands other than for XPRESS function, using "AX Remote Editor."

Operating components individually

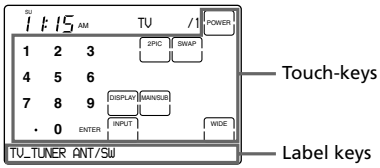


When you press the COMPONENT button on the Remote Commander, the component names appear at the bottom of the display.



When you press a component name you want to operate, the display to operate the component appears. This display is called "Component display." Keys on the Component display are divided into two types—"Touch-keys" with preset labels and "Label keys" that can be customized.

Component display



See "Table of preset functions" (page 76) for the functions of keys and buttons for each component.

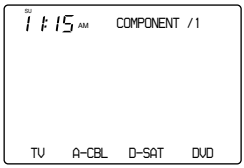
How to register the components to the Remote Commander

You can register up to 16 components.
For On-PC Setup: See the Help menu provided in "AX Remote Editor."
For On-Remote Setup: See "Setting the preset codes" on page 45.

Example: To change the input select of the TV

1 Press the COMPONENT button.

"COMPONENT" appears as the Display title.

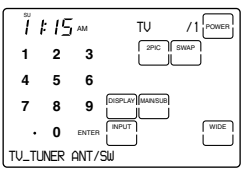


If a page number such as "/1" appears to the right side of Display title, multiple pages are available. Press the number to go to the next page.

Continued

2 Press the component name you want to operate (in this case, TV).

The component name appears as the Display title.
And the keys you use to control the TV are displayed as Touch-keys.



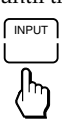
If a page number such as "/1" appears to the right side of Display title, multiple pages are available. Press the number to go to the next page.

3 Press the key(s) or button(s) you want to operate.

Example:

① Press the POWER key.

② Press the INPUT key repeatedly until the desired input is selected.



When the signal is sent, ((•)) appears. You can also use other buttons, such as the VOLUME +/–, CHANNEL +/–, MUTING, cursor, and MENU buttons.

4 When you are finished using the Remote Commander, press the COMMANDER OFF button.

The Remote Commander turns off.

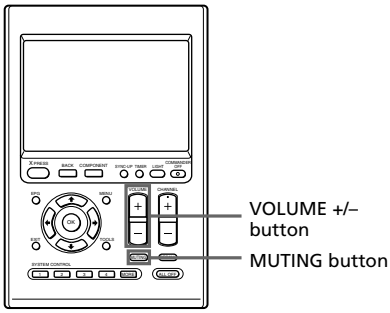
If you want to return to the previous display

Press the BACK button, the previous LCD display returns.

Note

The remote control signals may be different for some components or functions. In this case, program the remote control signals with the Learning function.
For On-PC Setup: See the Help menu provided in "AX Remote Editor."
For On-Remote Setup: See "Using non-preset remote control operations" on page 47.

To control the volume



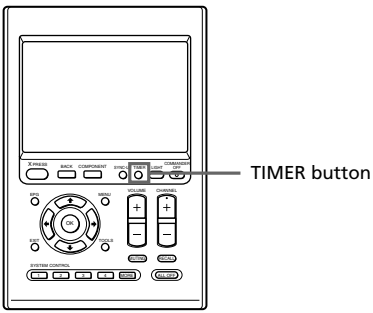
Press the VOLUME +/– buttons to control the volume, and the MUTING button to silence. When you select a visual component, the TV's volume will be controlled; when you select an audio component, the amplifier's volume will be controlled.

How to set the volume control of visual components

For On-PC Setup: See the Help menu provided in "AX Remote Editor."
For On-Remote Setup: See "Controlling the volume of visual components connected to an audio component" on page 57.

Executing a series of commands at a scheduled time

– Timer function



The Remote Commander (RM-AX4000) can perform a programmed commands automatically at a scheduled time every day or on a particular day. This function is called "Timer."

You can set up to 8 Timer with the following options.

- **Timer ON/OFF**
  Switches ON/OFF each Timer.
- **Key Label**
  When you press the TIMER button on the Remote Commander, keys showing a Timer function appear at the bottom of the display. The default labels of each Timer are shown as "PROG1" to "PROG8" and you can change their labels.
- **Commands to be operated**
  You can program a series of commands (a macro) to operate at a scheduled time. This is called, "Timer macro."
- **Time**
  Sets the operation time (hour, minute, AM/PM) for a Timer.
- **Day**
  Sets the day(s) for a Timer.

Continued

Executing a series of commands at a scheduled time (continued)

How to set the Timer function

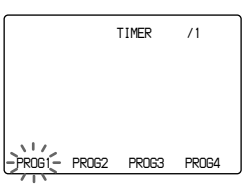
For On-PC Setup: See the Help menu provided in "AX Remote Editor."
For On-Remote Setup: See "Setting the Timer" on page 59.

To quickly switch the Timer on or off

With the Remote Commander (RM-AX4000), you can quickly switch a Timer function on or off.
The following procedure is based on the assumption that a series of commands (a macro) is programmed to the PROG1.

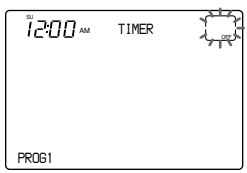
1 Press the TIMER button.

The Timer numbers for which a Timer is already set and is in standby mode, stay lit. The available program numbers flash on the Label keys.
If a page number such as "/1" appears to the right side of Display title, multiple pages are available. Press the number to go to the next page.



2 Select a standby timer program that you want to switch on/off by pressing the Label keys (in this case, PROG1).

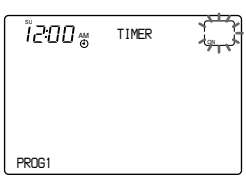
The switching display for Timer of PROG1 appears.



If you select a non-timer program, the "NG" beep is heard and "NG" flashes twice.

3 Press the ON/OFF key.

A single beep is heard and the "⏲" mark appears, and the standby mode of the selected Timer is set to on.



4 Press and hold the COMMANDER OFF button for more than 2 seconds.

The Remote Commander turns off.

If you want to quit before finishing

Press and hold the COMMANDER OFF button for more than 2 seconds. The previous status returns, and the Remote Commander turns off.

If you want to return to the previous display

Press the BACK button or the COMMANDER OFF button, the previous LCD display returns.

Notes

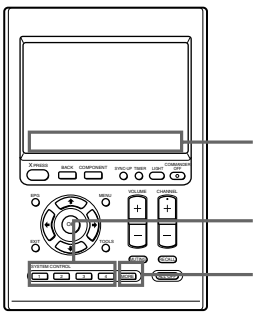
- When you finish setting the timer standby mode, the "⏻" mark stays lit beside the clock. This means that one or more Timers are activated.
- The timer program you set repeats every week until you set the timer standby mode to OFF (weekly timer). If you want to execute the timer program only once, set the timer standby mode to OFF after the execution of the timer program.

IMPORTANT

The Timer function of this Remote Commander is designed for use with AV components.
Do not use the Timer function with other components, such as an air-conditioner or other electrical appliances. It may cause a fire or a serious injury.

Executing a series of commands with just one button

– System Control function



The Remote Commander (RM-AX4000) has special buttons which can be programmed to perform a series of commands (a macro) just pressing one button.
If you press the MORE button (rightmost SYSTEM CONTROL button), all keys sharing the same function as that SYSTEM CONTROL button appear at the bottom of the display. These keys are called, "System Control keys."
You can program a series of commands (a macro) for each of four SYSTEM CONTROL buttons and four System Control keys. This is called "System Control macro."

How to set the System Control function

For On-PC Setup: See the Help menu provided in "AX Remote Editor."
For On-Remote Setup: See "Programming a series of commands with just one button" on page 51.

Continued

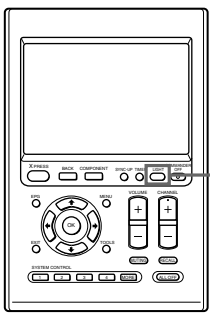
Executing a series of commands with just one button (continued)

Notes

- If the remote control detectors of the components are too far apart, or if something is blocking them, some of the components may not operate in the ordered sequence when you press a SYSTEM CONTROL button or System Control key.
- If some of the components did not operate correctly because of the above or for any other reason, always set all the components back to the states they were in before you pressed the SYSTEM CONTROL button or the System Control key. Failure to do this can result in incorrect operation when you press the SYSTEM CONTROL buttons or the System Control keys again.
- Some components may not always be powered-on by the System Control function. This is because the power of the component goes on and off alternately when receiving the power on/off signal. In this case, check the operating component's power on/off state before using the System Control function.

Using other useful functions

To operate the Remote Commander in the dark



The Remote Commander (RM-AX4000) has a backlight on the LCD display. Pressing any button or key automatically activates the display. If no button or key is pushed within a set time, the backlight automatically turns off.

Default backlight settings

Off-time setting	10 seconds
Brightness	Level 15 (Max: 15)
Fade effect	ON
On-mode setting	All keys and buttons

How to set the backlight

For On-PC Setup: See the Help menu provided in "AX Remote Editor."
Or see "Setting the backlight" on page 34.
For On-Remote Setup: See "Setting the backlight" on page 34.

Locking the controls

– Hold function

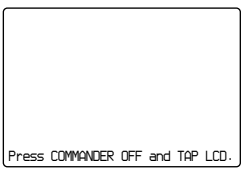
To prevent accidental operation, you can lock all the buttons with the Hold function. However, any programmed Timer functions will still be activated while the controls are locked.

While pressing the COMMANDER OFF button, press the touch-key.

The LCD display turns off.

When the controls are locked

If you attempt to operate the Remote Commander, a message reminding you to release the Hold function appears for 10 seconds on the LCD display.

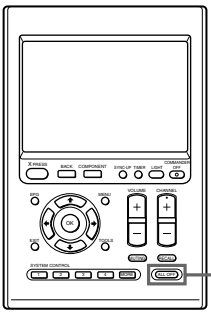


To unlock the controls

While pressing the COMMANDER OFF button, press the touch-key.

With a beep sounds, the previous status display returns.

To turn off all the components at one time



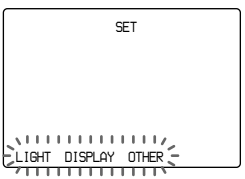
If you press the ALL OFF button, all the preset components turn off at the factory setting.

Setting the backlight

The LCD display's backlight is preset at the factory to activate whenever the Remote Commander (RM-AX4000) is operated, and to switch off automatically if you do not operate for more than 10 seconds.
You can set the backlight automatic-off time, the brightness, the setting of the fade effect, and which buttons activate the backlight.
To change this setting, perform the following procedure.

1 While pressing the COMMANDER OFF button, press the MUTING button.

"SET" appears as the Display title.

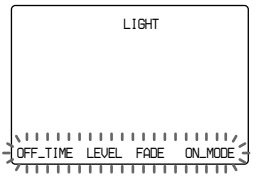


If "LIGHT" does not flash on the Label keys, press the Display title (SET) repeatedly until it appears.

2 Press "LIGHT" on the Label keys.

LIGHT

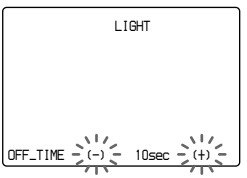
"LIGHT" appears as the Display title.



3 Press "OFF_TIME" on the Label keys.

OFF_TIME

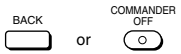
The setting display for automatic-off time of the backlight appears.



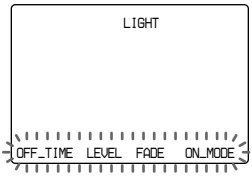
4 Press the (–) or (+) key to change the automatic-off time of the backlight.

You can set the automatic-off time from 1 to 60 seconds. Each time the (–)/(+) key is pressed, the time decreases/increases by 1 second. For example, "20sec" on the Label keys means 20 seconds.

5 Press the BACK button or the COMMANDER OFF button.



"LIGHT" appears as the Display title.

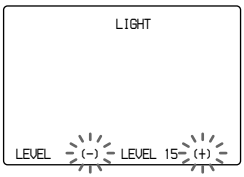


Note

When you set the automatic-off time to longer than 10 seconds (factory setting), the battery life may be shorter.

6 Press "LEVEL" on the Label keys.

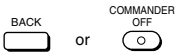
The setting display for brightness appears.



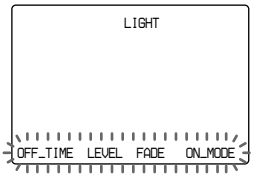
7 Press the (–) or (+) key to change the brightness of the backlight.

You can set the brightness from 1 to 15. Each time the (–)/(+) key is pressed, the level decreases/increases by 1.

8 Press the BACK button or the COMMANDER OFF button.

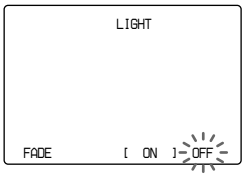


"LIGHT" appears as the Display title.



9 Press "FADE" on the Label keys.

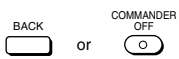
The setting display for fade effect appears.
The current setting is shown inside the [ ], while the other flashes.



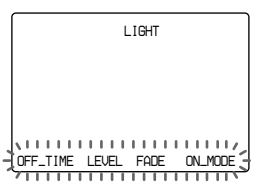
10 Press the ON or OFF key to select the fade effect of the backlight.

ON: fade in/out backlight
OFF: normal backlight
The fade effect of the backlight changes and a beep sounds each time you press the keys.

11 Press the BACK button or the COMMANDER OFF button.

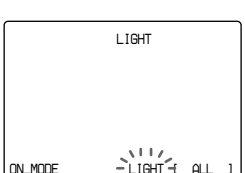


"LIGHT" appears as the Display title.



12 Press "ON_MODE" on the Label keys.

The setting display for buttons to activate the backlight appears.
The current setting is shown inside the [ ], while the other flashes.



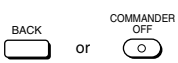
13 Press the LIGHT or ALL key to select which buttons activate the backlight.

LIGHT: The backlight is activated by pressing the LIGHT button only.
ALL: The backlight is activated by pressing any button on the Remote Commander except the VOLUME +/–, CHANNEL +/– and COMMANDER OFF buttons.
The buttons to activate backlight changes and a beep sounds each time you press the keys.

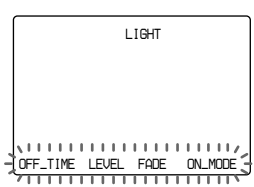
Note

In the "ALL" position, if you use the Remote Commander frequently, the battery life may be shorter. In this case, shorten the automatic-off time.

14 Press the BACK button or the COMMANDER OFF button.



"LIGHT" appears as the Display title.



15 Press and hold the COMMANDER OFF button for more than 2 seconds.

The Remote Commander turns off.

If you want to quit before finishing

Press and hold the COMMANDER OFF button for more than 2 seconds. The previous status returns, and the Remote Commander turns off.

If you want to return to the previous display

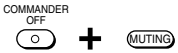
Press the BACK button or the COMMANDER OFF button, the previous LCD display returns.

Setting the LCD display

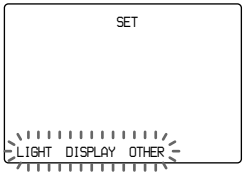
Setting the automatic-off time of the LCD display

The Remote Commander (RM-AX4000) is preset at the factory to switch off the LCD display automatically if you do not operate it for more than 5 minutes.
To change this setting, perform the following procedure.

1 While pressing the COMMANDER OFF button, press the MUTING button.



"SET" appears as the Display title.



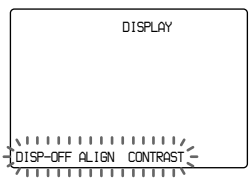
If "DISPLAY" does not flash on the Label keys, press the Display title (SET) repeatedly until it appears.

Continued

2 Press “DISPLAY” on the Label keys.

DISPLAY

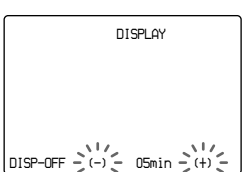
“DISPLAY” appears as the Display title.



3 Press ”DISP-OFF” on the Label keys.

DISP-OFF

The setting display for automatic-off time of the LCD display appears.



4 Press the (–) or (+) key to change the automatic-off time of the LCD display.

You can set the automatic-off time from 1 to 30 minutes.
Each time the (–)/(+) key is pressed, the minute decreases/increases by 1 minute. For example, “02min” on the Label keys means 2 minutes.

5 Press and hold the COMMANDER OFF button for more than 2 seconds.

The Remote Commander turns off.

If you want to quit before finishing

Press and hold the COMMANDER OFF button for more than 2 seconds. The previous status returns, and the Remote Commander turns off.

If you want to return to the previous display

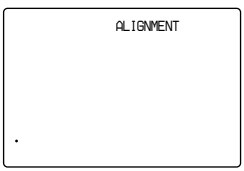
Press the BACK button or the COMMANDER OFF button, the previous LCD display returns.

Calibrating the alignment of the LCD display

You can calibrate the alignment of the LCD display if the Touch-keys are not working properly.
To change this setting, perform the following procedure.

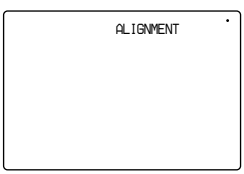
1 While pressing the COMMANDER OFF button, press the MENU button and EXIT button.

The setting display for calibrating the alignment of the LCD display appears.



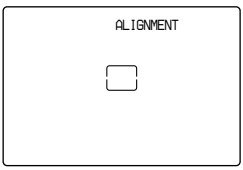
2 Press the point on the bottom-left of the LCD display.

The other point appears on the top-right of the LCD display.



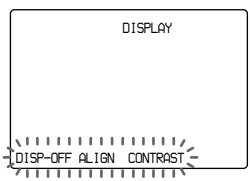
3 Press the point on the top-right of the LCD display.

The square appears in the center of the LCD display.



4 Press the square in the center of the LCD display.

When the calibration is complete, the beep sounds, and the LCD display returns to the selecting display of display setting.



Note

When calibrating, be sure to press the point accurately, otherwise the calibration will be off and you will need to start over.

5 Press and hold the COMMANDER OFF button for more than 2 seconds.

The Remote Commander turns off.

If you want to quit before finishing

Press and hold the COMMANDER OFF button for more than 2 seconds. The Remote Commander turns off.

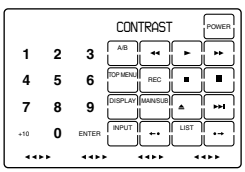
Continued

Setting the contrast of the LCD display

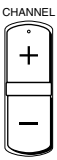
You can adjust the contrast of the LCD display if the screen is not viewed properly.
To change this setting, perform the following procedure.

1 While pressing the COMMANDER OFF button, press the OK button.

The setting display for contrast appears.



2 Press the CHANNEL +/– button to adjust the contrast of the LCD display.



You can set the contrast level from 1 to 15.
CHANNEL +: Darker contrast
CHANNEL –: Lighter contrast

Note
If you press the CHANNEL +/– button and the contrast level is already at the minimum/maximum level, the beep does not sound. The level can be set from 1 to 15.

3 Press and hold the COMMANDER OFF button for more than 2 seconds.

The Remote Commander turns off.

If you want to quit before finishing

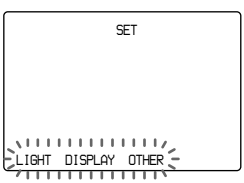
Press and hold the COMMANDER OFF button for more than 2 seconds. The previous status returns, and the Remote Commander turns off.

Setting the beep

The Remote Commander (RM-AX4000) is preset at the factory with the confirmation beep set to on.
To change this setting, perform the following procedure.

1 While pressing the COMMANDER OFF button, press the MUTING button.

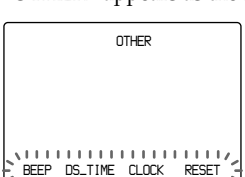
"SET" appears as the Display title.



If "OTHER" does not flash on the Label keys, press the Display title (SET) repeatedly until it appears.

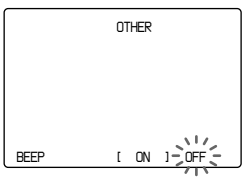
2 Press "OTHER"on the Label keys.

"OTHER" appears as the Display title.



3 Press "BEEP" on the Label keys.

The setting display for beep appears. The current setting is shown inside the [ ], while the other flashes.



4 Press the ON or OFF key to select the beep.

ON: Turns on the beep.
OFF: Turns off the beep.
The beep setting changes and a beep sounds each time you press the key.

5 Press and hold the COMMANDER OFF button for more than 2 seconds.

The Remote Commander turns off.

If you want to quit before finishing

Press and hold the COMMANDER OFF button for more than 2 seconds. The previous status returns, and the Remote Commander turns off.

If you want to return to the previous display

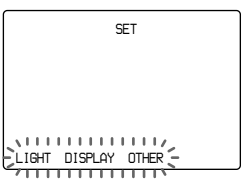
Press the BACK button or the COMMANDER OFF button, the previous LCD display returns.

Adjusting the clock

You can adjust the clock after setting. To change this setting, perform the following procedure.

1 While pressing the COMMANDER OFF button, press the MUTING button.

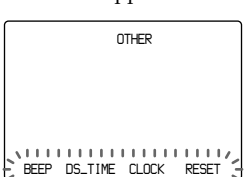
"SET" appears as the Display title.



If "OTHER" does not flash on the Label keys, press the Display title (SET) repeatedly until it appears.

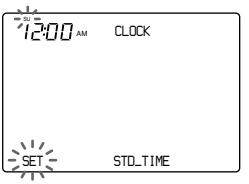
2 Press "OTHER" on the Label keys.

"OTHER" appears as the Display title.



3 Press "CLOCK" on the Label keys.

The setting display for clock appears.

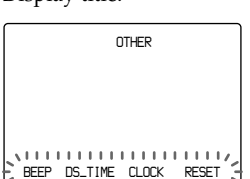


4 Press the ⇧/⇩/⇨/⇦ buttons to change the time or day.

Each time the ⇦ or ⇨ button is pressed, the Clock display changes in order (the day ⟷ the hour ⟷ the minute ⟷ the day).
Each time the ⇧ or ⇩ button is pressed, the hour or minute changes by 1 hour or minute.
Select the hour or minute by pressing the (⇦/⇨) button first.

5 Press "SET" on the Label keys.

With a beep sound, the clock is started. "OTHER" appears as the Display title.



6 Press and hold the COMMANDER OFF button for more than 2 seconds.

The Remote Commander turns off.

If you want to quit before finishing

Press and hold the COMMANDER OFF button for more than 2 seconds. The previous status returns, and the Remote Commander turns off.

If you want to return to the previous display

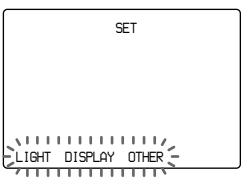
Press the BACK button or the COMMANDER OFF button, the previous LCD display returns.

To change the display to the daylight savings time (summer time) indication

You can select the standard time (STD_TIME) or summer time (DS_TIME). To change this setting, perform the following procedure.

1 While pressing the COMMANDER OFF button, press the MUTING button.

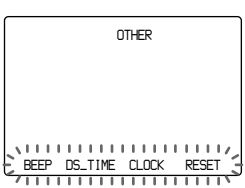
"SET" appears as the Display title.



If "OTHER" does not flash on the Label keys, press the Display title (SET) repeatedly until it appears.

2 Press "OTHER" on the Label keys.

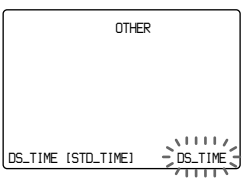
"OTHER" appears as the Display title.



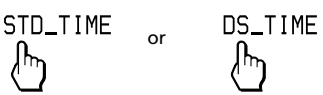
Continued

3 Press "DS_TIME" on the Label keys.

The setting display for daylight savings time appears.
The current setting is shown inside the [ ], while the other flashes.



4 Press the STD_TIME or DS_TIME key.



STD_TIME is 1 hour behind the DS_TIME.
DS_TIME is 1 hour ahead of the STD_TIME.
The setting of the daylight savings time changes and a beep sounds each time you press the keys.

Note
In this case, the minute and second are not changed.

5 Press and hold the COMMANDER OFF button for more than 2 seconds.

The Remote Commander turns off.

If you want to quit before finishing

Press and hold the COMMANDER OFF button for more than 2 seconds. The previous status returns, and the Remote Commander turns off.

If you want to return to the previous display

Press the BACK button or the COMMANDER OFF button, the previous LCD display returns.

The following section explains On-Remote Setup. If you set the Remote Commander by On-PC Setup, these explanations are not valid.

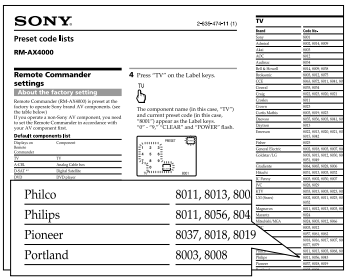
Setting the preset codes

You should register components to the Remote Commander by setting their preset codes.
Setting of the preset code is required in the following cases:
– To use a Sony component that is not registered to the Remote Commander by the default setting
– To use other brands of components

Example: To set up a Philips TV

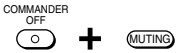
1 See the tables in the supplied "Preset code lists," and find the four-digit preset code for the desired component.

If more than one preset code is listed for the component, use the first number on the list.
For example, to set up a Philips TV, you would use the preset code "8011."

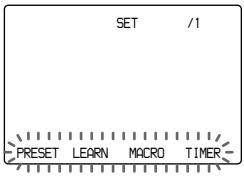


Tip
The first digit of the preset code means the type of component (TV, VCR, etc.). For further details, see the tables in the supplied "Preset code lists."

2 While pressing the COMMANDER OFF button, press the MUTING button.

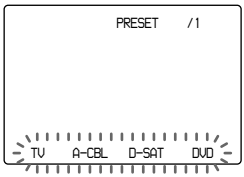


"SET" appears as the Display title.



3 Press "PRESET" on the Label keys.

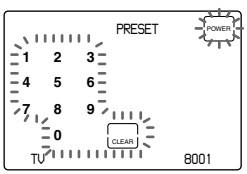
"PRESET" appears as the Display title. The component name flashes on the Label keys.
If a page number such as "/1" appears to the right side of Display title, multiple pages are available. Press the number to go to the next page.



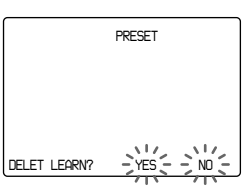
Continued

4 Select the component name you want the Remote Commander to preset by pressing the Label key (in this case, TV).

The "TV" and current preset code (in this case, "8001") appear as the Label keys.
"0" - "9," "CLEAR" and "POWER" flash.



Note
If another remote control signal has already been learned, the delete confirmation message appears. Register the components after deleting the learned signal following the procedure of the LCD display.



5 Press the "8," "0," "1," and "1" number keys.

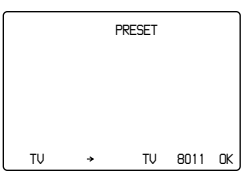
Tip
Each time the CHANNEL +/– button is pressed, the preset code increases/decreases by 1.

If you make a mistake in inputting

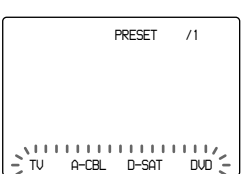
Press the CLEAR key. The preset code returns to the previous number.

6 Press the OK button.

A beep sounds and the input preset code appears on the Label key momentarily.



"PRESET" appears as the Display title.



7 Press and hold the COMMANDER OFF button for more than 2 seconds.

The Remote Commander turns off.

If you want to quit before finishing

Press and hold the COMMANDER OFF button for more than 2 seconds. The previous status returns, and the Remote Commander turns off.

If you want to return to the previous display

Press the BACK button or the COMMANDER OFF button, the previous LCD display returns.

Notes

- If you enter a preset code that is not on the table in the supplied "Preset code lists," the Remote Commander beeps five times. The digits you input and "NG" appear on the Label key after you press the OK button. The previous setting returns. If this happens, check the preset code, and try setting again.
- If you do not enter any data to the Remote Commander for over 2 minutes between each step, the setup procedure will be canceled. To set the preset code again, press the MUTING button while pressing the COMMANDER OFF button.
- The first digit of the preset code means the type of component (TV, VCR, etc.). The component corresponding to the four-digit of the preset code is set in step 5. If you register a component whose type is different from that previously preset to the Label keys, you can, if necessary, change the component names as the Label keys (page 65).
- If you set a preset code after you input character contents (names, etc.) to the Label keys (page 65), they are cleared and return to the original display. Edit the characters after you decide the component to be used by setting a preset code.
- Except the DVD/Receiver combo (DAV), the components with the built-in amplifier should be registered as RCVR (Receiver). All the keys that are inoperative should be registered by the learning function.

Using non-preset remote control operations

– Learning function

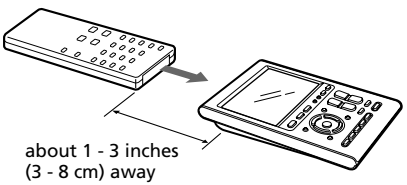
To operate non-preset components or functions, use the following "learning" procedure to "teach" any of the programmable buttons and keys to operate the functions of another remote control. You can also use the Learning function to change the signal of individual keys and buttons after setting the preset code (page 45).

Notes

- You cannot perform this procedure before setting the preset code. Set the preset code first.
- Some specific remote control signals may not be learned.
- The learned signal may not work properly if a target component's remote control preset button has two different functions for a single press. If this occurs, teach the two signals for a Label key by referring to the "Learning up to 4 signals to one key" on page 49.
- If you do not perform learning steps within 2 minutes, the learning process is cancelled.

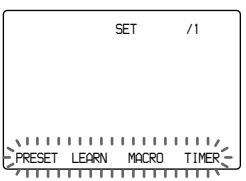
1 Place the Remote Commander (RM-AX4000) head to head with your component's remote control.

Remote control for your component



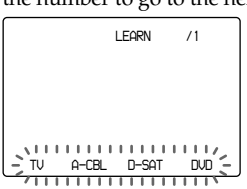
2 While pressing the COMMANDER OFF button, press the MUTING button.

"SET" appears as the Display title.



3 Press "LEARN" on the Label keys.

"LEARN" appears as the Display title. The component name flashes on the Label keys.
If a page number such as "/1" appears to the right side of Display title, multiple pages are available. Press the number to go to the next page.



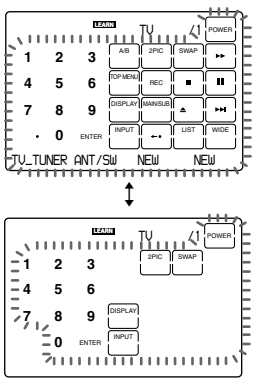
Tip

To change the component name of a Label key

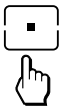
Press and hold the Label key for the component name for more than 2 seconds. The Label key flashes and the Remote Commander enters the component name changing mode.
See step 6 on page 67 for how to input characters.

4 Select the component name you want the Remote Commander to learn by pressing the Label key (in this case, TV).

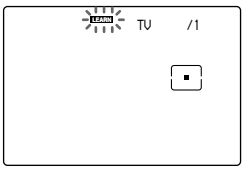
The "TV" and "LEARN" appear on the Display title.
The learnable keys and the preset key flash alternately.



5 Press the key or button on the Remote Commander you want to "teach" the preset code to.



"LEARN" flashes and only the pressed key remains on the LCD display.

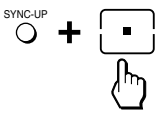


When you have programmed the buttons on the Remote Commander

The names of buttons not on the LCD display (VOLUME +/–, CHANNEL +/–, MUTING, RECALL, MENU, EPG, TOOLS, EXIT, ⇧, ⇩, ⇨, ⇦ and OK) appear on the right Label keys.

To clear the learned signal from a key or button

While pressing the SYNC-UP button, press the learned key or button you want to clear.

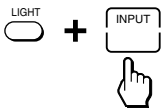


The cleared key flashes together with other keys that are available for learning.

Learning up to 4 signals to one key

This is useful when the Remote Commander is not working properly, even when the signal is learned for the Remote Commander using the Learning function. You can also use this function to switch the input mode such as TV, etc., or to switch between DVD player and DVD recorder operation with one key.

To re-teach already learned keys or buttons, press the key or button while pressing the LIGHT button.



"LEARN" flashes and the only the pressed key remains on the LCD display.
You can teach a maximum of 4 functions to one key or button.

6 Press and hold the button on the other remote control until you hear a beep.

(If you release the button before you hear a beep, the signal may not be learned correctly.)

Other remote control's button

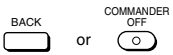
"LEARN" stops flashing and stays lit. When the command has been learned successfully, the learned keys stay lit and the other keys available for learning flash alternately.

Notes

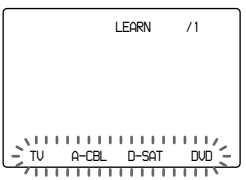
- If "NG" flashes on the LCD display with 5 beep sounds, learning did not succeed. Try again steps 5 and 6.
- If you touch a wrong key by mistake, while pressing the SYNC-UP button, press the incorrect key again.

Continued

7 Press the BACK button or the COMMANDER OFF button.



"LEARN" appears as the Display title.



If you want to teach another signal, repeat steps 4 - 6.

8 Press and hold the COMMANDER OFF button for more than 2 seconds.

The Remote Commander turns off.

If you want to quit before finishing

Press and hold the COMMANDER OFF button for more than 2 seconds. The previous status returns, and the Remote Commander turns off.

If you want to return to the previous display

Press the BACK button or the COMMANDER OFF button, the previous LCD display returns.

If the Remote Commander does not seem to be working properly, repeat from step 5.

If the learned key or button does not operate properly, teach once again. (For example, if the volume becomes very loud after pressing the VOLUME + button just once, noise may have interfered during the learning procedure.)

When you teach signals to the VOLUME +/ – or MUTING buttons

- If you have programmed any signal on the VOLUME +/– or MUTING button for components other than TV and RCVR (Receiver/Amplifier) using the learning function, that signal will be transmitted only when you select that component.
- If you have programmed any signal for the VOLUME +/– or MUTING button of TV or RCVR (Receiver/Amplifier) using the learning function, that signal will also be transmitted when you select another component.
  However, if you have programmed any signal for the VOLUME +/– or MUTING button of another component, that signal will be transmitted only after you select that component.

For accurate learning

- Do not move the remote units during the learning procedure.
- Be sure to press and hold the button of the other remote control until you hear the confirmation beep.
- Use fresh batteries in both remote control units.
- Avoid learning in places under direct sunlight or strong fluorescent light.
- The remote control detector area may differ depending on each remote unit. If learning does not work, try changing the positions of the two remote units.
- When you teach a remote control unit with an interactive signal exchange system (supplied with some Sony receivers and amplifiers) to the Remote Commander, the response signal of the component may interfere with the learning of the Remote Commander. In such a case, move to another room, etc., where the signals will not interfere.

IMPORTANT

Be sure to place the Remote Commander out of the reach of small children or pets. Also, set the Hold function to lock the all the buttons on the Remote Commander (page 33) when it is not used. Devices such as air conditioners, heaters, electric appliances, and electric shutters or curtains receiving an infrared signal can be dangerous if misused.

Programming a series of commands with just one button

–System Control function

With the System Control function, you can program a series of commands (a macro) and execute them by pressing just one button. For example, when you watch a video, a series of operations like the ones below are necessary.

Example:

1 Turn on the TV.
2 Turn on the video (VCR).
3 Turn on the amplifier (RCVR).
4 Set the input selector of the amplifier to VIDEO 1.
5 Set the input mode of the TV to VIDEO 1.
6 Start video playback.

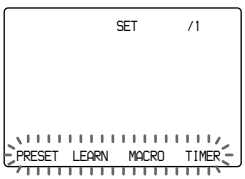
You can program up to 32 consecutive operation steps to each of the SYSTEM CONTROL buttons (1 - 4) or the System Control keys (SYSTEM 5 - 8).

Continued

Programming a series of commands with just one button (continued)

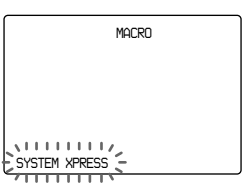
1 While pressing the COMMANDER OFF button, press the MUTING button.

"SET" appears as the Display title.



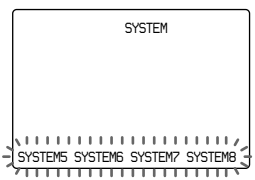
2 Press "MACRO" on the Label keys.

"MACRO" appears as the Display title.



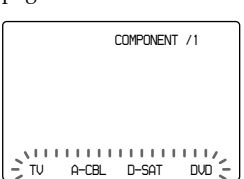
3 Press "SYSTEM" on the Label keys.

"SYSTEM" appears as the Display title.



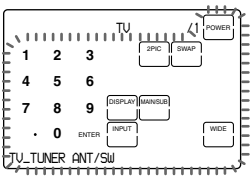
4 Select the System Control name by pressing the SYSTEM CONTROL button or the System Control key (in this case, SYSTEM CONTROL 2 button).

"COMPONENT" appears as the Display title. The component name flashes on the Label keys.
If a page number such as "/1" appears to the right side of Display title, multiple pages are available. Press the number to go to the next page.



5 Select the component name you want the Remote Commander to program the series of commands (a macro) by pressing the Label key (in this case, TV).

The "TV" appears as the Display title, and the programmable keys for the selected component flash.



6 Press the key(s) or button(s) for the desired operation.

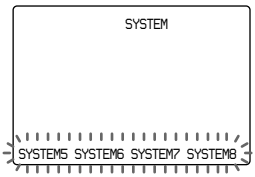
If you want to turn on the TV, press the POWER key.

If you want to add commands from a different component, press the COMPONENT button and then select the component name from the Label keys.

When you have programmed the buttons on the Remote Commander

The names of buttons not on the LCD display (VOLUME +/–, CHANNEL +/–, MUTING, RECALL, MENU, EPG, TOOLS, EXIT, ⇧, ⇩, ⇨, ⇦ and OK) appear on the right Label keys.

When the maximum of 32 steps are input, the System Control macro programming finishes and a beep sounds, and the System Control macro displays in order. "SYSTEM" appears as the Display title.



Notes

- You can input up to 32 steps for one System Control function.
- If you need a manual delay between two steps, press the TIMER button to add an interval of 250 ms. (ms: 1/1000 second)
- The Display title and the LIGHT button are not counted as steps.

7 When you have programmed all the keys and buttons, press the COMMANDER OFF button.

A beep sounds, the System Control macro programming finishes and displays in order.

8 Press and hold the COMMANDER OFF button for more than 2 seconds.

The Remote Commander turns off.

Continued

If you want to quit before finishing

Press and hold the COMMANDER OFF button for more than 2 seconds. The setting is canceled, and the Remote Commander turns off.

If you want to return to the previous display

Press the BACK button or the COMMANDER OFF button. The previous LCD display returns.

Notes

- If you interrupt the procedure at any point for over 2 minutes, the setting is cancelled and the series of commands (a macro) will be programmed to that point. In this case, clear the program (page 54) and start again from step 1 to set the entire program from the beginning. You cannot continue from where you left off.
- If you set the preset code (page 45) or program a new signal by learning (page 47) on a key or button that has been programmed in the System Control macro, the new signal will be transmitted when you press the corresponding SYSTEM CONTROL button or System Control key.
- If you try to program more than 32 steps, the System Control macro programming finishes, and the 32 steps you have programmed are registered. If you want to program again, clear the program (page 54) and start again from step 1.

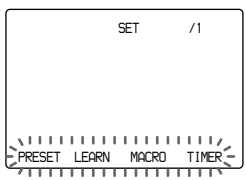
About the order of operation steps

Some of the components may not accept consecutive remote control signals. For example, a TV generally does not react to the next signal immediately after the Power-on signal. So, a series of commands such as TV power-on and input select may not work properly. In this case, insert other signals like the example below;
TV power-on → VCR power-on → VCR playback → TV input select

To clear programmed series of commands for SYSTEM CONTROL button or System Control key

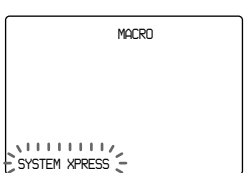
1 While pressing the COMMANDER OFF button, press the MUTING button.

"SET" appears as the Display title.



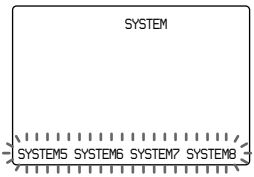
2 Press "MACRO" on the Label keys.

"MACRO" appears as the Display title.



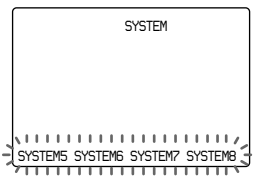
3 Press “SYSTEM” on the Label keys.

“SYSTEM” appears as the Display title.



4 While pressing the SYNC-UP button, press the programmed key or button you want to clear.

A beep sounds, “SYSTEM” appears as the Display title.



5 Press and hold the COMMANDER OFF button for more than 2 seconds.

The Remote Commander turns off.

If you want to quit before finishing

Press and hold the COMMANDER OFF button for more than 2 seconds. The setting is canceled, and the Remote Commander turns off.

If you want to return to the previous display

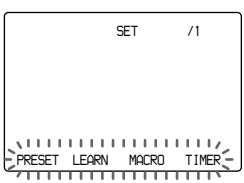
Press the BACK button or the COMMANDER OFF button. The previous LCD display returns.

Setting the XPRESS macro activation

You can switch the XPRESS macro activation to on or off when selecting the XPRESS function.
If you set to off, the XPRESS display appears without sending the XPRESS macro.
To change this setting, perform the following procedure.

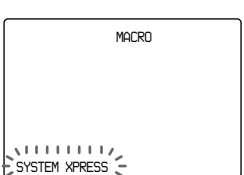
1 While pressing the COMMANDER OFF button, press the MUTING button.

"SET" appears as the Display title.



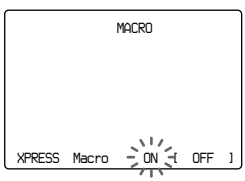
2 Press "MACRO" on the Label keys.

"MACRO" appears as the Display title.



3 Press "XPRESS" on the Label keys.

The setting display for XPRESS macro activation appears.
The current setting is shown inside the [ ], while the other flashes.



4 Press the ON or OFF key to select the XPRESS macro activation.

ON: Turns on the XPRESS macro activation.
OFF: Turns off the XPRESS macro activation.
The setting of the XPRESS macro activation changes each time you press the key.

5 Press and hold the COMMANDER OFF button for more than 2 seconds.

The Remote Commander turns off.

If you want to quit before finishing

Press and hold the COMMANDER OFF button for more than 2 seconds. The previous status returns, and the Remote Commander turns off.

If you want to return to the previous display

Press the BACK button or the COMMANDER OFF button, the previous LCD display returns.

Controlling the volume of visual components connected to an audio component

The Remote Commander (RM-AX4000) is factory preset based on the assumption that you hear the sound of your visual components from your TV speakers, and that you hear sound of your audio components from the loudspeakers connected to your amplifier.

This feature enables you to control the volume of your TV or amplifier without selecting TV or RCVR each time to control the volume.
For example, to control the volume while using a VCR, you do not need to select the TV to control the TV volume. With the Remote Commander, you can switch the volume of all the visual components to the amplifier.

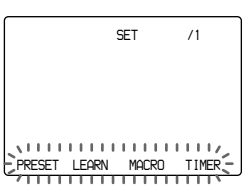
The following table shows the factory setting of component/volume control.

Component	Controls the volume of
TV	TV
A-CBL	TV
D-SAT	TV
DVD	TV
VCR	TV
CD	RCVR
RCVR	RCVR
DVDVR	TV
DVD-R	TV
D-CBL	TV
DAV	DAV
PJ (Projector)	PJ
TAPE	RCVR
MD	RCVR
LIGHT	———

However, if your visual components are connected to an audio component, you probably hear TV or VCR sound from the loudspeakers via your amplifier, not from your TV speakers. In this case, you need to change the factory preset so that you can control the volume of your visual components without first having to switch to the amplifier.

1 While pressing the COMMANDER OFF button, press the MUTING button.

"SET" appears as the Display title.



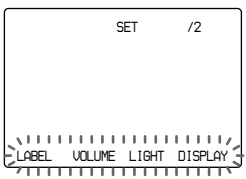
Continued

Controlling the volume of visual components connected to an audio component (continued)

2 Press the Display title (SET) once.

SET

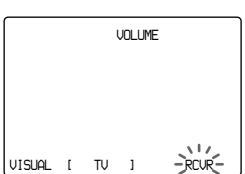
"VOLUME" flashes on the Label keys.



3 Press "VOLUME" on the Label keys.

VOLUME

The setting display of volume control appears.
The current setting is shown inside the [ ], while the other flashes.



4 Press the TV or RCVR key to select the volume control.

TV: You will hear the sound of your visual components from your TV speakers.
RCVR: You will hear the sound of your visual components from the loudspeakers connected to your amplifier.
The volume control setting changes and a beep sounds each time you press the keys.

5 Press and hold the COMMANDER OFF button for more than 2 seconds.

COMMANDER OFF

The Remote Commander turns off.

If you want to quit before finishing

Press and hold the COMMANDER OFF button for more than 2 seconds. The previous status returns, and the Remote Commander turns off.

If you want to return to the previous display

Press the BACK button or the COMMANDER OFF button, the previous LCD display returns.

Notes

- If you have already programmed any signal for the VOLUME or MUTING button of each component by "learning," the procedure above will not change the function of the VOLUME and MUTING buttons.
- If you have programmed volume control signals on the VOLUME or MUTING buttons of a TV or RCVR, you can only use that signal when you select TV or RCVR. For other components, the preset volume control signals for TV or RCVR (depending on the above setting procedure) will be transmitted. To use the new signals, you need to program each button for each component by the learning procedure (page 47).

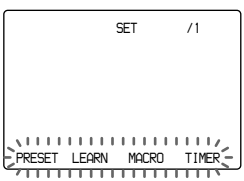
Setting the Timer

Up to 8 Timers can be set on the Remote Commander (RM-AX4000). You can program the Timer for the day of the week, the hour, the minute and a series of commands (a macro). You can set each Timer to be executed or not.
To program the Timer, perform the following procedure.

To program the Timer

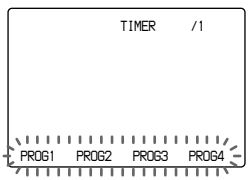
1 While pressing the COMMANDER OFF button, press the MUTING button.

"SET" appears as the Display title.



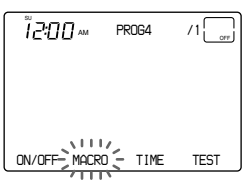
2 Press "TIMER" on the Label keys.

"TIMER" appears as the Display title. The Timer numbers "PROG1" - "PROG4" flash on the Label keys.
If a page number such as "/1" appears to the right side of Display title, multiple pages are available. Press the number to go to the next page.



3 Select the Timer number you want the Remote Commander to set the Timer by pressing the Label key (in this case, PROG4).

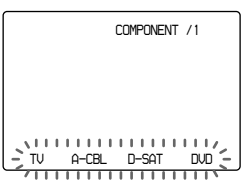
The "PROG4" appears as the Display title.
"SU" and "12:00 AM" appear on the Clock display.



Continued

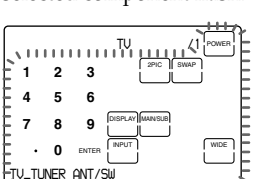
4 Press “MACRO” on the Label keys.

“COMPONENT” appears as the Display title. The component names flash on the Label keys.
If a page number such as “/1” appears to the right side of Display title, multiple pages are available. Press the number to go to the next page.



5 Select the component name you want the Remote Commander to program the series of commands (a macro) by pressing the Label key.

The “TV” appears as the Display title, and the programmable keys for the selected component flash.



6 Press the key(s) or button(s) for the desired operation.

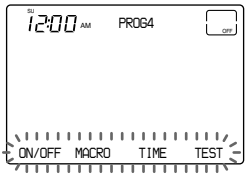
If you want to turn on the TV, press the POWER key.

If you want to add commands from a different component, press the COMPONENT button and then select the component name from the Label keys.

When you have programmed the buttons on the Remote Commander

The names of buttons not on the LCD display (VOLUME +/–, CHANNEL +/–, MUTING, RECALL, MENU, EPG, TOOLS, EXIT, ⇧, ⇩, ⇨, ⇦ and OK) appear on the right Label key.

When the maximum of 32 steps are input, the Timer macro programming finishes and a beep sounds, and the Timer macro displays in order.



Notes

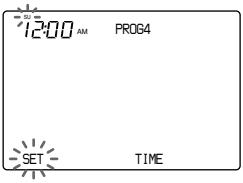
- You can input up to 32 steps for one Timer.
- If you need a manual delay between two steps, press the TIMER button to add an interval of 250 ms. (ms: 1/1000 second)
- The Display title and the LIGHT button are not counted as steps.

7 When you have programmed all the keys and buttons, press the COMMANDER OFF button.

A beep sounds, the Timer macro programming finishes and is displayed in order.

8 Press “TIME” on the Label keys.

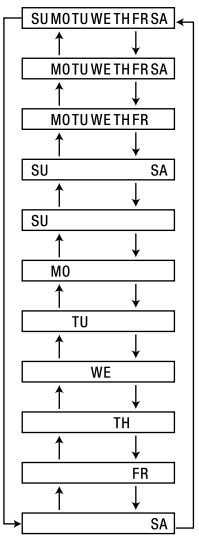
“SET” and “SU” flash and “12:00 AM” lights on the Clock display.



Continued

9 Press the ⇧ or ⇩ button to set the day(s) of the week.

Each time the ⇧ or ⇩ button is pressed the day(s) of the week change as follows.



SU : Sunday
MO : Monday
TU : Tuesday
WE : Wednesday
TH : Thursday
FR : Friday
SA : Saturday

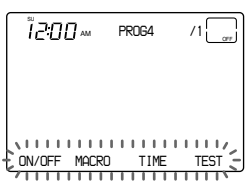
Then, press the ⇨ button. The day(s) of the week is set.
"12" "AM" and "SET" flash.

10 Press the ⇧/⇩/⇨/⇦ buttons to change the time.

Each time the ⇦ or ⇨ button is pressed, the Clock display changes in order (the day(s) ⟷ the hour ⟷ the minute ⟷ the day(s)).
Each time the ⇧ or ⇩ button is pressed, the hour or minute changes by 1 hour or minute.

11 Press "SET" on the Label keys.

With a beep sound, the timer setting changes.

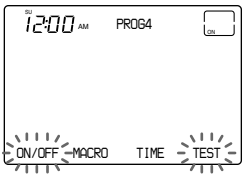


Note

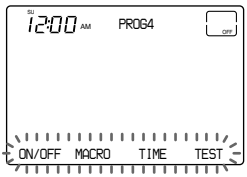
If you press the SET key at any point, the time setting changes.

12 Press the ON/OFF or TEST key to activate the Timer.

ON/OFF: With a beep sound, "ON" appears on the top-right of the LCD display, and the Remote Commander enters the Timer standby mode.
TEST: You can check the Timer macro by transmitting the signals.



To reset the timer standby mode, press the ON/OFF key again.



13 Press and hold the COMMANDER OFF button for more than 2 seconds.

The Remote Commander turns off.

If you want to quit before finishing

Press and hold the COMMANDER OFF button for more than 2 seconds. The previous status returns, and the Remote Commander turns off.

If you want to return to the previous display

Press the BACK button or the COMMANDER OFF button, the previous LCD display returns.

Notes

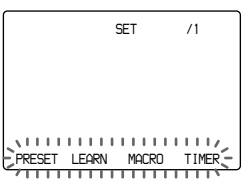
- Some Timer may not be executed at the set time because of conflicts with other set Timer. If the execution time arrives while another Timer is running, the later Timer begins only after the first one ends.
  In this case also, the program may not be executed at the set time. So, set the Timer regarding the contents and the duration of the Timer execution.
- When using the Timer on this Remote Commander, only one setting can be assigned to one program. If you want to set the Timer to turn on at a programmed time, and to set the Timer to turn off at another time, program the two settings separately.
- If there are some programs set to be executed at the same time, they start in order from the lowest Timer number.
- According to the status of the component operated by the Timer, the next program might not function successfully. When setting a Timer, check carefully the setting of other programs.

Continued

To clear a Timer macro

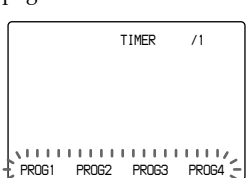
1 While pressing the COMMANDER OFF button, press the MUTING button.

"SET" appears as the Display title.



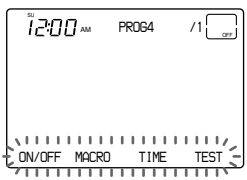
2 Press "TIMER" on the Label keys.

"TIMER" appears as the Display title. The Timer numbers "PROG1" - "PROG4" flash on the Label keys. If a page number such as "/1" appears to the right side of Display title, multiple pages are available. Press the number to go to the next page.



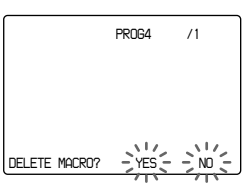
3 Select the Timer number you want the Remote Commander to clear the Timer by pressing the Label key.

The selected Timer number appears as the Display title.



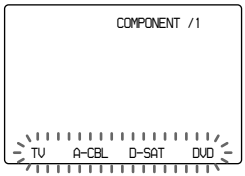
4 Press the MACRO key if the Timer macro has already been programmed.

"DELETE MACRO?" appears on the Label key and "YES" and "NO" flash.



5 Press “YES” on the Label keys.

The Timer macro is cleared, then “COMPONENT” appears as the Display title.



If you press the NO key

The Timer macro is not cleared, and the display returns to step 3.

6 Press and hold the COMMANDER OFF button for more than 2 seconds.

The Remote Commander turns off.

If you want to quit before finishing

Press and hold the COMMANDER OFF button for more than 2 seconds. The previous status returns, and the Remote Commander turns off.

If you want to return to the previous display

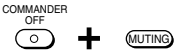
Press the BACK button or the COMMANDER OFF button, the previous LCD display returns.

Changing the names of labels

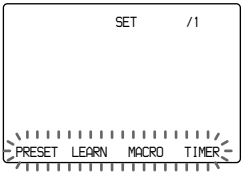
You can change the names of the XPRESS function, components, System Control keys and Timer on the Label keys to the most suitable name using up to 8 characters or digits.
To change the names, perform the following procedure.

Example: To change the name of the component(TV).

1 While pressing the COMMANDER OFF button, press the MUTING button.



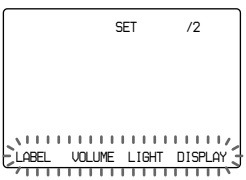
“SET” appears as the Display title.



Continued

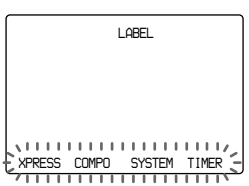
2 Press the Display title (SET) once.

"LABEL" flashes on the Label keys.



3 Press "LABEL" on the Label keys.

"LABEL" appears as the Display title.



4 Select the type of Label key you want the Remote Commander to change by pressing the Label key (in this case, COMPO).

XPRESS: Display XPRESS names. To change the Label keys, press the Display title.
COMPO: Displays component names. To change the Label key, press the Display title.
SYSTEM: Displays SYSTEM5 - 8. To change the Label key, press the Display title.
TIMER: Displays PROG1 - 4. To change the Label key, press the Display title.

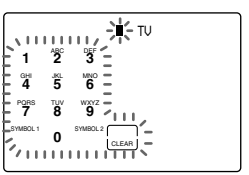
To change the component name as the Display title

Press and hold the Display title for the component name displayed for more than 2 seconds. The Remote Commander enters the component name changing mode.

5 Press the Label key of the name you want to change.

The Remote Commander enters the Label setting mode.

COMPO (Example: TV)
The cursor flashes on the left side of the Display title.



6 Input digits or characters for the Label key by pressing the number keys (0 -9), SYMBOL 1 key or SYMBOL 2 key on the Touch-key.

Begin inputting digits or characters from the left. Press the number key repeatedly until you obtain the desired digit or character.
The digits or characters are assigned to the keys as follows.

1: 1
2: A → B → C → a → b → c → 2
3: D → E → F → d → e → f → 3
4: G → H → I → g → h → i → 4
5: J → K → L → j → k → l → 5
6: M → N → O → m → n → o → 6
7: P → Q → R → S → p → q → r → s → 7
8: T → U → V → t → u → v → 8
9: W → X → Y → Z → w → x → y → z → 9
0: 0
SYMBOL 1: ! → & → / → ? → $ → % → * → # → + → - → : → , → . → | → space
SYMBOL 2: space → (→) → < → > → → → ← → ↑ → ↓ → ◀ → ▶ → ″ → ′ → ~ → _
If you make a mistake, move the cursor to the desired position by pressing the ⇦ or ⇨ button, and input again.
If you press the CLEAR key, the Label key returns to the previous display.

7 Press the OK button to decide the name.

8 Press and hold the COMMANDER OFF button for more than 2 seconds.

The Remote Commander turns off.

If you want to quit before finishing

Press and hold the COMMANDER OFF button for more than 2 seconds. The previous status returns, and the Remote Commander turns off.

If you want to return to the previous display

Press the BACK button or the COMMANDER OFF button, the previous LCD display returns.

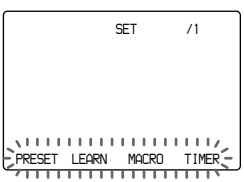
Erasing all the settings

– Reset

You can clear all the settings to reset the Remote Commander to its factory settings.

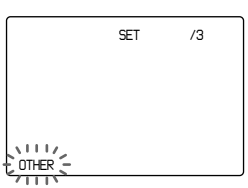
1 While pressing the COMMANDER OFF button, press the MUTING button.

"SET" appears as the Display title.



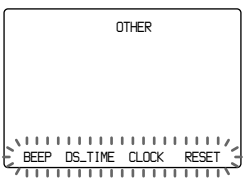
2 Press the Display title (SET) twice.

"OTHER" flashes on the Label keys.



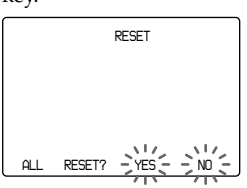
3 Press "OTHER" on the Label keys.

"RESET" flashes on the Label key.



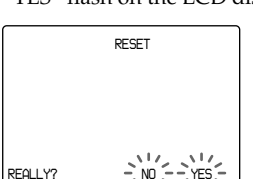
4 Press the "RESET" on the Label keys.

"YES" and "NO" flash on the Label key.



5 Press the "YES" on the Label keys.

"REALLY?" appears and "NO" and "YES" flash on the LCD display.



6 Press the “YES” on the Label keys.

With a beep sound, the all settings are cleared.

7 Press and hold the COMMANDER OFF button for more than 2 seconds.

The Remote Commander turns off.

If you want to quit before finishing

Press and hold the COMMANDER OFF button for more than 2 seconds. The previous status returns, and the Remote Commander turns off.

If you want to return to the previous display

Press the BACK button or the COMMANDER OFF button, the previous LCD display returns.

Precautions

- Do not drop the unit or give a shock to the unit, or it may cause a malfunction.
- Do not leave the unit in a location near heat sources, or in a place subject to direct sunlight, excessive dust or sand, moisture, rain or mechanical shock.
- Do not put foreign objects into the unit. Should any liquid or solid object fall into the unit, have it checked by qualified personnel before operating the unit any further.
- Do not expose the remote control detectors of your components to direct sunlight or other strong illumination. Too much light there can interfere with remote control operations.
- Be sure to place the Commander out of the reach of small children or pets. Devices such as air conditioners, heaters, electric appliances, and electric shutters or curtains receiving an infrared signal can be dangerous if misused.

Maintenance

Clean the surface with a soft cloth slightly moistened with water or a mild detergent solution. Do not use any type of solvent such as alcohol, benzine or thinner as they may damage the finish of the surface.

Specifications

Operating distance
Approx. 32.8 ft. (10 meters) (varies depending on components of different manufacturers)

Power requirements
Remote control and backlight: Four size AA (R6) batteries

Battery life
Approx. 5 months (a Sony TV turned on/off up to approx. 300 times per day)

Dimensions
Approx. $4\ ^{3}/_{4} \times 1\ ^{1}/_{4} \times 7$ in. (w × h × d)
(118 × 31.2 × 175 mm)

Mass
12 oz. (320 g) (not including batteries)

Learnable signals*
Capacity per signal: up to 300 bit
Signal frequency range: 455 kHz and up to 300 kHz
Signal interval: up to 1 second

* Some signals cannot be learned by the Remote Commander, even though the signals comply with these specifications.

Design and specifications are subject to change without notice.

Troubleshooting

If you have problems setting up or using the Remote Commander, first check the batteries (page 10), then check the items below.

Trouble with the Remote Commander's basic settings

Problem	Solution
The Remote Commander does not turn on.	Check the remaining battery level. If low, replace with new ones.
The LCD display turns off automatically.	The Remote Commander is preset at the factory to turn the display off automatically if you do not operate for more than 5 minutes. You can reset the automatic-off time to 1-30 minutes (page 34).
The beep does not sound.	The beep is turned off. Turn the beep on (page 41).
The touch-keys do not work properly at the right position.	Calibrate the alignment of the LCD display (page 39).
The LCD display does not light up even though the Remote Commander is turned on.	The contrast level is too low. Set the contrast of the LCD display higher. While pressing the COMMANDER OFF button, press the OK button. And then press the CHANNEL + button a few times to increase the contrast.
XPRESS function does not perform On-Remote Setup.	In case of On-Remote Setup, XPRESS function controls only the power on/off of the component. If you want to control the input selector of the TV, etc., follow the procedure for On-PC Setup.

Trouble with operation mode

Problem	Solution
The components I want to operate do not work even when the keys on the Remote Commander are pressed.	• Get closer to the component. The maximum operating distance is approximately 32.8 ft. (10 m). • Check that you are aiming the Remote Commander directly at the component, and that there are no obstructions between the Remote Commander and the component. • Turn on the components first, if necessary. • Check that the component has infrared remote capability. For example, if your component did not come with the Remote commander, it probably is not capable of being controlled by a Remote Commander.
The audio/visual component's volume is not controlled by the Remote Commander.	• If your visual components are connected to an audio component, For On-PC Setup: See the Help menu provided in "AX Remote Editor." For On-Remote Setup: See "Controlling the volume of visual components connected to an audio component" on page 57. • You have assigned another component to the Label key which was originally set as TV or RCVR at the factory (page 45). In this case, the volume cannot be controlled when you select a component other than TV or RCVR.

Continued

Problem	Solution
A System Control key does not work properly.	• Make sure that you have programmed the commands in the correct order (page 51). • Try changing the orientation of the Remote Commander. If that does not help, try placing the components as close to each other as possible. • Check the status of the components and make sure that you have set the components properly to receive commands. • The preset codes are changed or new signals have been learned for a key or button that has been programmed with a series of commands. In this case, the new signals are transmitted when the series of commands is executed.
Even if I set the Timer macro, the component does not work properly.	• The component could not receive the signal from the Remote Commander successfully. When using the Timer, check the following. – Check that the Timer macro functions correctly by pressing the TEST key, after setting the Timer macro (page 59). – Check the location of the Remote Commander. • The status of the component is not suitable for operation (for example, you programmed the power-on setting, assuming that power of the component is off when the Timer turns on. However, if the power of the component is on when the component receives the signal from the Remote Commander, the component will turn off).
Even if I operate an XPRESS function, the TV does not turn on, or it turns off.	• The Remote Commander memorizes the status of the component's input selector and power on/off. However, if you turn on/off the component with the remote control or operate the component directly, it will not recognize the current component status. In this case, press the SYNC-UP button to synchronize with the status of the current component and the Remote Commander. • If the TV turns off by its own Sleep function, the Remote Commander does not recognize its status. Turn off the TV with the Remote Commander. You can also turn off the TV at the scheduled time with the Timer on the Remote Commander.
Even if I operate an XPRESS function, the Source component does not turn on, or it turns off.	• The Remote Commander memorizes the status of the component's input selector and power on/off. However, if you turn on/off the component with the remote control or operate the component directly, it will not recognize the current component status. In this case, press SYNC-UP button to synchronize the status of the current component and the Remote Commander. • If the TV turns off by its own Sleep function, the Remote Commander does not recognize its status. Turn off the TV with the Remote Commander. You can also turn off the TV at the scheduled time with the Timer on the Remote Commander.

Problem	Solution
Even if I operate an XPRESS function, the input selector of the TV or RCVR (Receiver/ Amplifier) does not achieve the correct status.	• The Remote Commander memorizes the status of the component's input selector and power on/off. However, if you turn on/off the component with the remote control or operate the component directly, it will not recognize the current component status. In this case, press the SYNC-UP button to synchronize the status of the current component and the Remote Commander. • If the TV turns off by its own Sleep function, the Remote Commander does not recognize its status. Turn off the TV with the Remote Commander. You can also turn off the TV at the scheduled time with the Timer on the Remote Commander.
Air-Slide does not work properly.	Make sure to slide your finger from the top-left on the LCD display. If you slide other than from the top-left, Air-Slide cannot recognize the action.

Trouble with setting mode

Problem	Solution
Even if I set a preset code, the component does not work.	• Set the preset code correctly. If the preset code that is listed first for your component does not work, try all the preset codes for your component in the order in which they are listed in the supplied "Preset Code Lists." • Some features may not be preset. If some or all of the keys do not function correctly even after you have set the preset codes, use the learning function to program the remote control signals for the component (page 47). • If you set a preset code after inputting character contents, they are cleared and return to the original display. Edit the characters after you decide the component to be used by setting a preset code.
Learning fails.	• Make sure to place the Remote Commander (RM-AX4000) and remote control about 1-3 inches (3-8 cm) apart. Check the remaining battery level of the remote control. If low, replace with new ones. • Avoid learning in places under direct sunlight or strong fluorescent light. • When you teach a remote control unit with an interactive signal exchange system (supplied with some of Sony's receivers and amplifiers) to the Remote Commander, the response signal of component may interfere with the learning of the Remote Commander. In such a case, move to another room, etc., where the signals will not interfere.

Continued

Problem	Solution
The keys learned do not operate properly.	Make sure that the Remote Commander has learned the correct signals. See “For accurate learning” (page 51) and try the learning procedure again (page 48).
“NG” flashes 5 times when learning.	• Leaning has not succeeded. After checking the following, try the learning procedure again (page 48). – Change the distance between the Remote Commander and remote control. – See “For accurate learning” (page 51). • The preset codes cannot be set. See the supplied “Preset code lists” and try setting the preset codes again (page 45).
“NG” flashes twice when learning.	• Learned signals have been programmed for the button or key to which you want to set the learning, System Control function. Clear the learned signals (page 54) and try setting again. • Learn the signal within 10 sec after selecting a key/button you want to teach.
The Remote Commander does not memorize the radio band change (AM/FM) or frequency.	The Remote Commander cannot learn them. If you want to adjust the radio band or frequency, operate it manually.
The setting display does not appear.	The batteries are weak. Replace with new ones.
The setting display finishes in process of the setting.	The batteries are weak. Replace with new ones.
“PRESET”, “LEARN”, “MACRO”, ”TIMER”, and ”LABEL” do not appear on the LCD display.	These setting only appear with On-PC setup. To see these items, use the AX Remote Editor software.

Others

Problem	Solution
I want to restore all the settings.	In AX Remote Editor, click “Tools” on the menu bar, then select “Update Firmware for Remote” to update the firmware of the Remote Commander. If the firmware is updated, all the settings or learned data of the Remote Commander are deleted and the Remote Commander is set back to the factory setting.
I want to use multiple components (such as a DVD/VCR combo) with XPRESS function.	When you have a multiple components (such as a DVD/VCR combo), select only one of either component type. For example, in the case of a DVD/VCR combo, select “DVD” or ”VCR”. If you select both components, the XPRESS function will not work properly.
I want to set a DVD player for both XPRESS DVD and XPRESS CD.	For On-PC Setup: You can set multiple XPRESS functions for one component. For example, when you watch a DVD, you can set the sound to output from the TV. Or, when you listen to a CD, you can set the sound to output from the RCVR (Receiver/Amplifier). For On-Remote Setup: You can set an XPRESS function for only one component. Choose either XPRESS_DVD or XPRESS_CD.
If the batteries die, are the learned signals lost?	No. The signals are not deleted because they are stored in the nonvolatile memory.
My PC cannot recognize the USB connection.	• Make sure to install the USB driver properly (page 17). • The batteries may be weak. Replace with new ones if the battery icon appears. • If the connection goes thorough the HUB, some PCs do not recognize it. In this case, connect it directly to the USB port of your PC. • The Remote Commander does not work by the bus power. If you use it in the USB mode, make sure to install new batteries. • Reconnect the USB mini cable to your PC. • Restart your PC.

For the customers in the U.S.A.

Customer Support Information

After you have read through this manual, if you still cannot get the Remote Commander to work properly, call the Sony Customer Support Helpline at 1-800-822-2217.

Table of preset functions

Note

There may be some components or functions that cannot be operated with this Remote Commander.

TV

KEY DISPLAY	FUNCTION
POWER	To turn the power on/off
1 – 9, 0, ENTER	To change the channel (To change to channel 5, for example, press 0 and 5, or press 5 and ENTER.)
•	To enter the subchannel number
2PIC	To turn on/off the twin pictures
SWAP	To swap the main picture and the sub picture
DISPLAY	To display the current channel on TV
MAIN/SUB	To switch the sound of the duplex broadcast
INPUT	To change the input mode
WIDE	To switch to the WIDE mode
⇧	To move the cursor upward
⇩	To move the cursor downward
⇨	To move the cursor to the right
⇦	To move the cursor to the left
OK	To enter the selection of the MENU display
EPG	To use the program guide
MENU	To call up the MENU
EXIT	To exit the MENU
TOOLS	To go into the OPTION setting mode
VOLUME +	Volume up (TV)
VOLUME –	Volume down (TV)
CHANNEL +	Channel up
CHANNEL –	Channel down
MUTING	To mute the volume on the TV. Press again to turn muting off.
RECALL	To select the channel previously selected
TV_TUNER	To return to the TV (to reset the external input)
ANT/SW	To switch the multiplex antenna input
NORMAL	To return the picture and sound quality to the standard status
SOUND	To select the sound adjusting mode
PICTURE	To select the picture adjusting mode
SLEEP	To operate SLEEP function on the TV (works only for a TV with SLEEP function)

A-CBL (Analog Cable box)

KEY DISPLAY	FUNCTION
POWER	To turn the power on/off
1 – 9, 0, ENTER	To change the channel (To change to channel 5, for example, press 0 and 5, or press 5 and ENTER.)
+100	To select numbers 100 and above
DISPLAY	To turn on the display
VOLUME +	Volume up (TV)
VOLUME –	Volume down (TV)
CHANNEL +	Channel up
CHANNEL –	Channel down
MUTING	To mute the volume on the TV. Press again to turn muting off.
RECALL	To select the channel previously selected

Continued

D-SAT (Digital Satellite)

KEY DISPLAY	FUNCTION
POWER	To turn the power on/off
1 – 9, 0, ENTER	To change the channel (To change to channel 5, for example, press 0 and 5, or press 5 and ENTER.)
•	To enter the subchannel number
INFO	To display program information
S.INDEX	To bring up the Station Index
DISPLAY	To turn on the display
FAVORITE	To use the "FAVORITE" function
INPUT	To switch the output of the SAT receiver to the TV (When connecting a TV cable or antenna to the receiver, the output switches between a TV and SAT program)
⇧	To move the cursor upward
⇩	To move the cursor downward
⇨	To move the cursor to the right
⇦	To move the cursor to the left
OK	To enter the selection of the MENU display
EPG	To use the program guide
MENU	To call up the MENU
EXIT	To exit the MENU
TOOLS	To go into the OPTION setting mode
VOLUME +	Volume up (TV)
VOLUME –	Volume down (TV)
CHANNEL +	Channel up
CHANNEL –	Channel down
MUTING	To mute the volume on the TV. Press again to turn muting off.
RECALL	To select the channel previously selected
CATEGORY	Category guide
ANT/SW	To switch the antenna input in order
OUTPUT	Cyclic HDTV output resolution

DVD (DVD player)

KEY DISPLAY	FUNCTION
POWER	To turn to the power on/off
1 – 9, 0	Number buttons: To set items selected from the screen
+10	To select numbers 10 and above
ENTER	To enter a setting or to set items selected from the screen
A/B	To decide the distance between A and B
◀◀	To rewind
▶	To play
▶▶	To fast-forward
TOP_MENU	To display the TOP Menu
■	To stop
❚❚	To pause
DISPLAY	To show the current play status on the screen
⏮	To proceed to the previous location or song
⏏*	To open or close the tray
⏭	To proceed to the next location or song
←•	To briefly replay the scene To go to the previous frame
SUBTITLE	To switch the subtitle
•→	To briefly fast-forward the scene To go to the next frame
⇧	To move the cursor upward
⇩	To move the cursor downward
⇨	To move the cursor to the right
⇦	To move the cursor to the left
OK	To enter the selection of the MENU display
MENU	To call up the MENU

KEY DISPLAY	FUNCTION
EXIT	To return to the previous display on the MENU
VOLUME +	Volume up (TV)
VOLUME –	Volume down (TV)
MUTING	To mute the volume on the TV. Press again to turn muting off.
TIME	To change the time display
SET_UP	To call up the setting up menu
←SLOW	Slow playback in the reverse direction
SLOW→	Slow playback in the forward direction
REPEAT	To go into the repeat mode
PLAYMODE	To change the playback mode
EDIT	To switch the edit mode to on/off
DISC	To change a disc
←SEARCH	To search in the reverse direction
SEARCH→	To search in the forward direction

* The ⏏ key does not work unless pressed for more than 1 second (factory setting).

Continued

VCR (Video Cassette Recorder)

KEY DISPLAY	FUNCTION
POWER	To turn the power on/off
1 – 9, 0, ENTER	To change the channel (To change to channel 5, for example, press 0 and 5, or press 5 and ENTER.)
◀◀	To rewind
▶	To play
▶▶	To fast-forward
REC*1	To record
■	To stop
❚❚	To pause
DISPLAY	To activate the on-screen display
MAIN/SUB	To switch the sound of the duplex broadcast
⏏*2	To eject a cassette
INPUT	To change the input mode
•⟶	CM skip function
⇧	To move the cursor upward
⇩	To move the cursor downward
⇨	To move the cursor to the right
⇦	To move the cursor to the left
OK	To enter the selection of the MENU display
MENU	To call up the MENU
EXIT	To exit the MENU
VOLUME +	Volume up (TV)
VOLUME –	Volume down (TV)
CHANNEL +	Channel up
CHANNEL –	Channel down
MUTING	To mute the volume on the TV. Press again to turn muting off.
PLAY x2	To play at double speed
Q.TIMER	To select the recording time by 30 minutes and begin recording

KEY DISPLAY	FUNCTION
SP/LP	To switch the tape speed
H.S.REW	To rewind at high speed
COUNTER	To change the counter display
ANT/SW	To switch the antenna output
⟵SEARCH	REVIEW locked picture search
SEARCH⟶	CUE locked picture search
LINE1	To select the input source: LINE 1
LINE2	To select the input source: LINE 2
DV_IN	To select the input source: DV
TV_TUNER	To return to the TV (to reset the external input)

*1 To avoid accidental recording, the REC key does not work unless pressed for more than 1 second (factory setting).

*2 The ⏏ key does not work unless pressed for more than 1 second (factory setting).

DVR (Digital Video Recorder)

KEY DISPLAY	FUNCTION
POWER	To turn the power on/off
1 – 9, 0, ENTER	To change the channel (To change to channel 5, for example, press 0 and 5, or press 5 and ENTER.)
•	To enter the subchannel number
INFO	To display program information
◀◀	To rewind
▶	To play
▶▶	To fast-forward
S.INDEX	To bring up the Station Index
REC*2	To record
■	To stop
❚❚	To pause
DISPLAY	To turn on the display
⏮	To select the previous track
FAVORITE	To use the "FAVORITE" function
⏭	To select the next track
INPUT	To switch the output of the SAT receiver to the TV (When connecting a TV cable or antenna to the receiver, the output switches between a TV and SAT program)
←•	To briefly replay the scene
LIST*1	To call up the title of the recorded program
•→	To briefly fast-forward the scene
⇧	To move the cursor upward
⇩	To move the cursor downward
⇨	To move the cursor to the right
⇦	To move the cursor to the left
OK	To enter the selection of the MENU display

KEY DISPLAY	FUNCTION
EPG*1	To use the program guide
MENU	To call up the MENU
EXIT	To exit the MENU
TOOLS	To go into the OPTION setting mode
VOLUME +	Volume up (TV)
VOLUME –	Volume down (YV)
CHANNEL +	Channel up
CHANNEL –	Channel down
MUTING	To mute the volume on the TV. Press again to turn muting off.
RECALL	To select the channel previously selected
REPLAY*1	To replay, or to go into REC/REVIEW mode during play (After about 5-second rewind, replay begins.)
LIVE_TV*1	To bring up Master Guide
ANT/SW	To switch the antenna output
– PAGE*1	Page down
PAGE +*1	Page up
– THUMBS*1	To select the desired recorded program (It is necessary to have recorded the desired program.)
THUMBS +*1	To select the desired recorded program (It is necessary to have recorded the desired program.)
CATEGORY	Category guide
HOME	To return to the home display from any display
VIEWER	To display a drop menu and toggle to change the user

*1 This key corresponds to Tivo service or the replay service. Refer to its instruction manual for details.
*2 To avoid accidental recording, the REC key does not work unless pressed for more than 1 second (factory setting).

Continued

CD (CD player)

KEY DISPLAY	FUNCTION
POWER	To turn the power on/off
1 – 9, 0	To select the track number
+10	To select numbers 10 and above
ENTER	To enter the setting
◀◀	To rewind
▶	To play
▶▶	To fast-forward
■	To stop
❚❚	To pause
DISPLAY	To switch the display of the CD player to turn on/off
I◀◀	To select the previous track
⏏*	To open/close
▶▶I	To select the next track
CLEAR	To clear the setting
D.SKIP	To select the next disc
VOLUME +	Volume up (RCVR)
VOLUME –	Volume down (RCVR)
MUTING	To mute the volume. Press again to turn muting off.
REPEAT	To select repeat play mode
SHUFFLE	To play in random order
PROGRAM	To use for program play
CONTINUE	To select continuous play mode
DISC	To decide the numeric key operation
TRACK	To decide the numeric key operation
EDIT	To go into the setting mode of automatic program and time fade
DSP_MODE	To toggle the mode of DSP added to the CD
PLAYMODE	To change the playback mode
FADER	To toggle the fade-in/fade-out operation

* The ⏏ key does not work unless pressed for more than 1 second (factory setting).

RCVR (Receiver/Amplifier)

KEY DISPLAY	FUNCTION
POWER	To turn the power on/off
1 - 9, 0	Keys to use the tuner directly
+10	To select numbers 10 and above
ENTER	To enter the setting
TUNER	To select the input source: TUNER
VIDEO 1	To select the input source: VIDEO 1
VIDEO 2	To select the input source: VIDEO 2
VIDEO 3	To select the input source: VIDEO 3
CD	To select the input source: CD
DVD	To select the input source: DVD
AUX	To select the input source: AUX
TAPE	To select the input source: TAPE
PHONO	To select the input source: PHONO
TV	To select the input source: TV
BAND	To select the tuner band
SHIFT	To shift band or preset select
INPUT	To change the input mode
MD	To select the input source: MD
5.1 INPUT	To change the multi-channel of 5.1ch and above
⇧	To move the cursor upward
⇩	To move the cursor downward
⇨	To move the cursor to the right
⇦	To move the cursor to the left
OK	To enter the selection of the MENU display
MENU	To call up the MENU

KEY DISPLAY	FUNCTION
EXIT	To exit the MENU
VOLUME +	Volume up (RCVR)
VOLUME –	Volume down (RCVR)
CHANNEL +	Presetting or turning frequency to a higher: +
CHANNEL –	Presetting or turning frequency to a lower: -
MUTING	To mute the volume. Press again to turn muting off.
S.FIELD	To turn on/off the sound field
GENRE	To select a sound field genre
MODE	To select a sound field mode
T.TONE	To output a test tone
– CENTER	To adjust the center speaker level
CENTER +	To adjust the center speaker level
– REAR	To adjust the rear speaker level
REAR +	To adjust the rear speaker level
– SUB_WOOFER	To adjust the subwoofer level
SUB_WOOFER +	To adjust the subwoofer level
←D.INPUT	To switch the digital input
D.INPUT→	To switch the digital input

Continued

DVDVR (DVR/DVD combo)

KEY DISPLAY	FUNCTION
POWER	To turn the power on/off
1 – 9, 0	Number buttons: To set items selected on the screen
+10	To select numbers 10 and above
ENTER	To enter a setting or to set items selected on the screen
INFO	To display program information
◀◀	To rewind
▶	To play
▶▶	To fast-forward
TOP MENU	To display the Top Menu
REC*1	To record
■	To stop
❚❚	To pause
DISPLAY	To show the current play status on the screen
I◀◀	To proceed to the previous location or song
⏏*2	To open or close the tray
▶▶I	To proceed to the next location or song
INPUT	To change the input mode
←•	To briefly replay the scene
LIST	To call up the title of the recorded program
•→	To briefly fast-forward the scene
⇧	To move the cursor upward
⇩	To move the cursor downward
⇨	To move the cursor to the right
⇦	To move the cursor to the left
OK	To enter the selection of the MENU display

KEY DISPLAY	FUNCTION
EPG	To use the program guide
MENU	To call up the MENU
EXIT	To return to the previous display on the MENU
TOOLS	To go into the OPTION setting mode
VOLUME +	Volume up (TV)
VOLUME –	Volume down (TV)
CHANNEL +	Channel up
CHANNEL –	Channel down
MUTING	To mute the volume. Press again to turn muting off.
RECALL	To select a drive
HDD	To select HDD
DVD	To select DVD
TIMER	To go into the timer setting mode
SYS_MENU	To call up the SYSTEM MENU
RECMODE	To select the recording mode
RECSTOP	To stop the recording
RECPAUSE	To pause the recording
SUBTITLE	To switch the subtitle
AUDIO	To change the sound

*1 To avoid accidental recording, the REC key does not work unless pressed for more than 1 second (factory setting).

*2 The ⏏ key does not work unless pressed for more than 1 second (factory setting).

DVD-R (DVD Recorder)

KEY DISPLAY	FUNCTION
POWER	To turn the power on/off
1 – 9, 0	Number buttons: To set items selected on the screen
+10	To select numbers 10 and above
ENTER	To enter a setting or to set items selected on the screen
A/B	To decide the distance between A and B
◀◀	To rewind
▶	To play
▶▶	To fast-forward
TOP MENU	To display the Top Menu
REC*1	To record
■	To stop
❚❚	To pause
DISPLAY	To show the current play status on the screen
⏮	To proceed to the previous location or song
⏏*2	To open or close the tray
⏭	To proceed to the next location or song
INPUT	To change the input mode
←•	To briefly replay the scene
SUBTITLE	To switch the subtitle
•→	To briefly fast-forward the scene
⇧	To move the cursor upward
⇩	To move the cursor downward
⇨	To move the cursor to the right
⇦	To move the cursor to the left
OK	To enter the selection of the MENU display
MENU	To call up the MENU
EXIT	To return to the previous display on the MENU

KEY DISPLAY	FUNCTION
VOLUME +	Volume up (TV)
VOLUME –	Volume down (TV)
CHANNEL +	Channel up
CHANNEL –	Channel down
MUTING	To mute the volume. Press again to turn muting off.
RECALL	To select a drive
TIME	To change the time display
SET_UP	To call up the setting up menu
←SLOW	Slow playback in the reverse direction
SLOW→	Slow playback in the forward direction
REPEAT	To go into the repeat mode
PLAYMODE	To change the playback mode
EDIT	To switch the edit mode to on/off
REC_ MODE	To change the recording mode
DISC	To change a disc
←SEARCH	To search in the reverse direction
SEARCH→	To search in the forward direction

*1 To avoid accidental recording, the REC key does not work unless pressed for more than 1 second (factory setting).

*2 The ⏏ key does not work unless pressed for more than 1 second (factory setting).

Continued

D-CBL (Digital Cable box)

KEY DISPLAY	FUNCTION
POWER	To turn the power on/off
1 – 9, 0, ENTER	To change the channel (To change to channel 5, for example, press 0 and 5, or press 5 and ENTER.)
INFO	To display program information
DISPLAY	To turn on the display
FAVORITE	To use the "FAVORITE" function
INPUT	To switch the output of the SAT receiver to the TV (When connecting a TV cable or antenna to the receiver, the output switches between a TV and SAT program)
⇧	To move the cursor upward
⇩	To move the cursor downward
⇨	To move the cursor to the right
⇦	To move the cursor to the left
OK	To enter the selection of the MENU display
EPG	To use the program guide
MENU	To call up the MENU
EXIT	To exit the MENU
TOOLS	To go into the OPTION setting mode
VOLUME +	Volume up (TV)
VOLUME –	Volume down (TV)
CHANNEL +	Channel up
CHANNEL –	Channel down
MUTING	To mute the volume. Press again to turn muting off.
RECALL	To select the channel previously selected

KEY DISPLAY	FUNCTION
HOME	To return to the home display from any display
VIEWER	To display a drop menu and toggle to change the user
ANT/SW	To switch the antenna input
– PAGE	Page up: +
PAGE +	Page down: –

DAV (DVD/Receiver combo)

KEY DISPLAY	FUNCTION
POWER	To turn the power on/off
1 – 9, 0	Number buttons: To set items selected on the screen
+10	To select numbers 10 and above
ENTER	To enter the setting
TUNER	To select the tuner band
◀◀	To rewind
▶	To play
▶▶	To fast-forward
TOP MENU	To display the Top Menu
REC*	To record
■	To stop
❚❚	To pause
DISPLAY	To show the current play status on the screen
⏮	To proceed to the previous location or song
BAND	To select the band
⏭	To proceed to the next location or song
INPUT	To change the input mode
←•	To briefly replay the scene
SUBTITLE	To switch the subtitle
•→	To briefly fast-forward the scene
⇧	To move the cursor upward
⇩	To move the cursor downward
⇨	To move the cursor to the right
⇦	To move the cursor to the left
OK	To enter the selection of the MENU display
MENU	To call up the MENU
EXIT	To return to the previous display on the MENU

KEY DISPLAY	FUNCTION
VOLUME +	Volume up (DAV)
VOLUME –	Volume down (DAV)
CHANNEL +	Presetting or turning frequency to a higher: +
CHANNEL –	Presetting or turning frequency to a lower: -
MUTING	To mute the volume. Press again to turn muting off.
D.SKIP	To select next disc
S.FIELD	To turn on/off the sound field
EJECT	To open or close the tray
AMP_MENU	To go to the AMP MENU
MEMORY	To preset radio stations
FM_MODE	To set the FM mode
SLEEP	To set the sleep timer
REPEAT	To go into the repeat mode
PLAYMODE	To change the playback mode
AUDIO	To change the sound

* To avoid accidental recording, the REC key does not work unless pressed for more than 1 second (factory setting).

Continued

PJ (Projector)

KEY DISPLAY	FUNCTION
POWER	To turn the power on/off
DISPLAY	To show the current play status on the screen
INPUT	To change the input mode
WIDE	To switch to the WIDE mode
⇧	To move the cursor upward
⇩	To move the cursor downward
⇨	To move the cursor to the right
⇦	To move the cursor to the left
OK	To enter the selection of the MENU display
VOLUME +	Volume up (PJ)
VOLUME –	Volume down (PJ)
MUTING	To mute the volume. Press again to turn muting off.
RESET	To reset

TAPE (Cassette deck)

KEY DISPLAY	FUNCTION
POWER	To turn the power on/off
1 – 9, 0	To select the track number
ENTER	To enter the setting
A/B	To select a tape deck: Deck A or B (Dual cassette deck only
◀◀	To rewind
▶	To play
▶▶	To fast-forward
REC*	To record
■	To stop
❚❚	To pause
DISPLAY	To show the current play status on the display
⏮	To search the beginning of a track in the rewind direction
◀	To reverse
⏭	To search the beginning of a track in the fast-forward direction
VOLUME +	Volume up (RCVR)
VOLUME –	Volume down (RCVR)
MUTING	To mute the volume. Press again to turn muting off.
REC_REV	To record in the reverse direction
REC_FWD	To record in the forward direction
FADER	To stop after fading out and fade in after starting

KEY DISPLAY	FUNCTION
REC_MUTE	Record muting
– REC_LEVEL	To make the recording level lower
REC_LEVEL +	To make the recording level higher
C.RESET	To reset the tape counter
DOLBY_NR	To toggle the Dolby Noise Reduction
PROGRAM	To go into the program mode by first pressing, and start program play by second pressing
C.MEMORY	To switch the position memory operation according to the tape counter to on/off

* To avoid accidental recording, the REC key does not work unless pressed for more than 1 second (factory setting).

Continued

MD (MD deck)

KEY DISPLAY	FUNCTION
POWER	To turn the power on/off
1 – 9, 0	To select the track number (0 for the track 10)
+10	To select numbers 10 and above
ENTER	To enter the setting
◀◀	To rewind
▶	To play
▶▶	To fast-forward
REC*	To record
■	To stop
❚❚	To pause
DISPLAY	To show the current play status on the display
⏮	To select the previous track
⏏	To eject the disc
⏭	To select the next track
CLEAR	To clear the setting
D.SKIP	To select the next disc

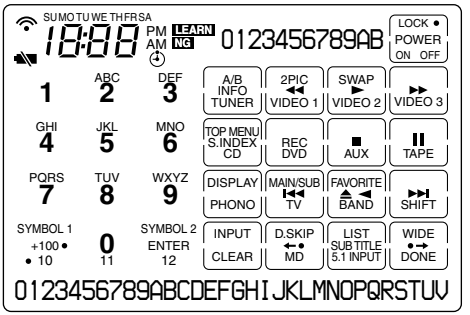
KEY DISPLAY	FUNCTION
VOLUME +	Volume up (RCVR)
VOLUME –	Volume down (RCVR)
MUTING	To mute the volume. Press again to turn muting off.
REPEAT	To go into the repeat mode
SHUFFLE	To play in random order
PROGRAM	To use for program play
CONTINUE	To select continuous play mode
FADER	To select the fade-in/fade-out
CD-SYNC	To start synchronizing with the CD
REC_MODE	To toggle the recording mode

* To avoid accidental recording, the REC key does not work unless pressed for more than 1 second (factory setting).

LIGHT

KEY DISPLAY	FUNCTION (Key display of other remote commanders)						
	Lutron						X10
	Spacer	Spacer System	Grafik Eye	RadioRA	Home-Works Interac-tive	Sivoia Shades	
OFF		OFF	OFF	ALL OFF			OFF
1		SCENE1	SCENE1	SCENE1	MACRO1	POSITION1	SCENE1
2		SCENE2	SCENE2	SCENE2	MACRO2	POSITION2	SCENE2
3		SCENE3	SCENE3	SCENE3	MACRO3	POSITION3	SCENE3
4		SCENE4	SCENE4	SCENE4	MACRO4	Open	SCENE4
5			SCENE5	SCENE5	MACRO5	Close	SCENE5
6			SCENE6	SCENE6	MACRO6		SCENE6
7			SCENE7	SCENE7	MACRO7		SCENE7
8			SCENE8	SCENE8	MACRO8		SCENE8
9			SCENE9	SCENE9	MACRO9		SCENE9
10			SCENE10	SCENE10	MACRO10		SCENE10
11			SCENE11	SCENE11	MACRO11		SCENE11
12			SCENE12	SCENE12	MACRO12		SCENE12
SCENE13			SCENE13	SCENE13	MACRO13		SCENE13
SCENE14			SCENE14	SCENE14	MACRO14		SCENE14
SCENE15			SCENE15	SCENE15	MACRO15		SCENE15
SCENE16			SCENE16		MACRO16		SCENE16
ALL ON		FULL ON		ALL ON			ALL ON
ALL OFF				ALL OFF			ALL OFF
ON							ON
OFF							OFF
CHANNEL +	Raise	Raise	Raise	Raise		Raise	Raise
CHANNEL –	Lower	Lower	Lower	Lower		Lower	Lower
RECALL	Toggle						

Full Display



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